BJCAK

THE BIOCHEMICAL JOURNAL

AUTHOR AND KEYWORD INDEXES FOR VOLUMES 209–216 (1983)

London: The Biochemical Society © 1984

Price: £5.00 (U.S. $12.00)

THE BIOCHEMICAL JOURNAL

AUTHOR AND KEYWORD INDEXES FOR VOLUMES 209–216 (1983)

London: The Biochemical Society © 1984

Available from

**The Biochemical Society Book Depot, P.O. Box 32,
Commerce Way, Colchester CO2 8HP, U.K.**

Printed in Great Britain by Spottiswoode Ballantyne Ltd., Colchester and London

Author Index

VOLUMES 209–216 (1983)

Abbondanza, A. See Stirpe, F.
Abraham, D.
——; Blakemore, W. F.; Jolly, R. D.; Sidebothom, R.; Winchester, B.
The catabolism of mammalian glycoproteins. Comparison of the storage products in bovine, feline and human mannosidosis. 215: 573
Abuknesha, R. See Khalfan, H.
Adam, S. See Arisawa, M.
Adamik, R. See Tsai, S. C.
Adams, A.
——; Fey, E. G.; Pike, S. F.; Taylorson, C. J.; White, H. A.; Rabin, B. R.
Preparation and properties of a complex from rat liver of polyribosomes with components of the cytoskeleton. 216: 215
Adams, S. R.
——; Sparkes, M. J.; Dixon, H. B. F.
The arsonomethyl analog of 3-phosphoglycerate. 213: 211
Ade, P. See Orlando, A. R.
Ades, I. Z.
——; Harpe, K. G.; Stevens, T. M.
Biogenesis of mitochondrial proteins. Regulation of production of δ-aminolevulinate synthase by hemin in embryonic chick liver. 214: 967
Adler, J. See Sussman, K. E.
Adlington, R. M.
——; Baldwin, J. E.; Lopez-Nieto, M.; Murphy, J. A.; Patel, N.
A study of the biosynthesis of the tripeptide δ-(L-α-aminoadipyl)-L-cysteinyl-D-valine in a β-lactam-negative mutant of Cephalosporium acremonium. 213: 573
Adzamli, I. K.
——; Petrou, A.; Sykes, A. G.; Rao, K. K.; Hall, D. O.
Kinetic studies on reactions of iron–sulfur proteins. Oxidation of the reduced form of Spirulina platensis [2Fe–2S] ferredox in with inorganic complexes. 211: 219
Aebersold, R. See Chang, J. Y.
Affolter, H. See Hertel, C.
Afting, E. G. See Frey, J.
Agius, L.
——; Wilding, C.; Alberti, K. G. M. M.
Metabolic effects of bacitracin in isolated rat hepatocytes. 216: 369
Agutter, P. S.
An assessment of some methodological criticisms of studies of RNA efflux from isolated nuclei. 214: 915
Ahlgren, J. A.
——; Ordal, G. W.
Methyl esterification of glutamic acid residues of methyl-accepting chemotaxis proteins in Bacillus subtilis. 213: 759
Ahmad, F. See Wu, N. C.
Ahmad, M. B.
——; Kincaid, J. R.
Heme disorder in modified myoglobins. Effect of reconstitution procedures. 215: 117
Ahmed, K.
——; Davis, A. T.; Goueli, S. A.
Differential effects of polyamines on the phosphorylation of chromatin-associated proteins. 209: 197
Ahmed, S.
——; Booth, I. R.
The use of valinomycin, nigericin, and trichlorocarbanilide in control of the protonmotive force in Escherichia coli cells. 212: 105
Ailhaud, G. See Grimaldi, P.
Ainsworth, S. See Gregory, R. B.
——; Kinderlerer, J.; Gregory, R. B.
The regulatory properties of rabbit muscle pyruvate kinase. The influence of substrate concentrations. 209: 401
Akamatsu, N. See Okamoto, Y.
Akhtar, M. See Mullen, E.; Seehra, J. S.
Akkerman, J. W. N.
——; Gorter, G.; Schrama, L.; Holmsen, H.
A novel technique for rapid determination of energy consumption in platelets. Demonstration of different energy consumption associated with three secretory responses. 210: 145
Alberti, K. G. M. M. See Agius, L.
Alemany, S. See Mato, J. M.
Ali, M. See Mujoo, K.
——; Mujoo, K.; Sahib, M. K.
Identification and origin of estradiol-binding protein in immature rat skin. Demonstration of estrophilic α-fetoprotein synthesis and secretion by developing rat skin explants in culture. 210: 653
Ali, S. Y. See Bayliss, M. T.
Alkjaersig, N.
——; Fletcher, A. P.
Formation of soluble fibrin oligomers in purified systems and in plasma. 213: 75
Allan, D.
——; Cockcroft, S.
The fatty acid composition of 1,2-diacylglycerol and polyphosphoinositides from human erythrocyte membranes. 213: 555
Allan, E. H. See Chisholm, A. B.
——; Chisholm, A. B.; Titheradge, M. A.
Hormonal stimulation of mitochondrial pyruvate carboxylation in filipin-treated hepatocytes. 212: 417
——; Green, I. C.; Titheradge, M. A.
The stimulation of glycogenolysis and gluconeogenesis in isolated hepatocytes by opioid peptides. 216: 507
Allaudeen, H. S. See De Clercq, E.
Allen, A. K. See Desai, N. N.; Ferguson, M. A. J.
Allen, G.
——; Gurnett, L. P.
Locations of the six disulfide bonds in a variant surface glycoprotein (VSG 117) from Trypanosoma brucei. 209: 481
Allen, R. G.
——; Farmer, K. J.; Sohal, R. S.
Effect of catalase inactivation on levels of inorganic peroxides, superoxide dismutase, glutathione, oxygen consumption and life span in adult houseflies (Musca domestica). 216: 503
Al-Nasser, I. See Crompton, M.
Al-Tai, W. F.
——; Jones, M. G.; Rashid, K.; Wilson, M. T.
An active cytochrome c oxidase that has no tightly bound cardiolipin. 209: 901
Althaus, Z. R. See Leakey, J. E. A.
Alvarez Chiva, V. See Marin-Cao, D.
Alvis, R. See Geheb, M.
Amatruda, J. M.
——; Danahy, S. A.; Chang, C. L.
The effects of glucocorticoids on insulin-stimulated lipogenesis in primary cultures of rat hepatocytes. 212: 135
Amos, H. See Gay, R. J.
Anastasi, A.
——; Brown, M. A.; Kembhavi, A.; Nicklin, M. J. H.; Sayers, C. A.; Sunter, D. C.; Barrett, A. J.
Cystatin, a protein inhibitor of cysteine proteinases. Improved purification from egg white, characterization, and detection in chicken serum. 211: 129
Anderson, N. G.
——; Hanson, P. J.
Arteriovenous differences for

amino acids across control and acid–secreting rat stomach in vivo. 210: 451
Substrate utilization by rat stomach in vivo. Arteriovenous differences for glucose, lactate, ketone bodies, fatty acids and glycerol under control and acid–secreting conditions. 212: 875
Anderton, P.
——; Wild, T. F.; Zwingelstein, G. Measles–virus–persistent infection in BGM cells. Modification of the incorporation of [^{3}H]arachidonic acid and [^{14}C]stearic acid into lipids. 214: 665
Andrews, P. See Bryant, D. T. W.
Angielski, S. See Strzelecki, T.
Anstee, D. J. See Ridgwell, K.; Spring, F. A.
Antonini, E. See Sarti, P.
Aoki, T. T. See Bogusky, R. T.
Arakawa, K. See Maruta, H.
Ardawi, M. S. M.
——; Newsholme, E. A. Glutamine metabolism in lymphocytes of the rat. 212: 835
Arisawa, M.
——; Adam, S. Mechanism of inactivation of TEM–1 β–lactamase by 6–acetylmethylenepenicillanic acid. 211: 447
——; Then, R. Inactivation of TEM–1 β–lactamase by 6–acetylmethylene–penicillanic acid. 209: 609
Arizmendi, C.
——; Medina, J. M. Lactate as an oxidizable substrate for rat brain in vitro during the perinatal period. 214: 633
Arlaud, G. J. See Villiers, C. L.
Armarego, W. L. F.
——; Randles, D.; Taguchi, H. K_m and $k_{cat.}$ values for [6,6,7,7–^{2}H]7,8(6H)–dihydropterin and 2,6–diamino–5–iminopyrimidin–4–one with dihydropteridine reductase. 211: 357
Armston, A. E. See Quinlan, P. T.
Arnstein, H. R. V. See Setchenska, M.
Ash, G. R. See Fimmel, A. L.; Jans, D. A.
Ashour, B.
——; Hansford, R. G. Effect of fatty acids and ketones on the activity of pyruvate dehydrogenase in skeletal–muscle mitochondria. 214: 725
Asselin, J.
——; Waelbroeck, M.; Robberecht, P.; De Neef, P.; Christophe, J. Effect of pH on binding of agonists and antagonists to rat heart muscarinic receptors. 216: 11
Asseraf, A. See Blanchard, D.
Assimacopoulos–Jeannet, F. See Van de Werve, G.
——; Cantau, B.; Van de Werve, G.; Jard, S.; Jeanrenaud, B. Lack of vasopressin receptors in liver, but not in kidney, of ob/ob mice. 216: 475
Atkinson, P. H. See Ceccarini, C.
Atkinson, T. See Palmer, R. M.
Attie, A. D. See Pittman, R. C.
Auberger, P.
——; Samson, M.; Le Cam, A. Effects of growth factors on hormonal stimulation of amino acid transport in primary cultures of rat hepatocytes. 210: 361
Inhibition of hormonal induction of tyrosine aminotransferase by polyamines in freshly isolated rat hepatocytes. 214: 679
Avery, N. C. See Smolenski, K. A.
Avigliano, L. See O'Neill, P.
Avruch, J. See Blackshear, P. J.
Axelsson, K. See Mannervik, B.
Azhar, S.
——; Hwang, S. F.; Reaven, E. P. Effect of antimicrotubule agents on terminal glycosyltransferases and other enzymes associated with rat liver subcellular fractions. 212: 721

Bachelard, H. S. See Cox, D. W. G.
Badawy, A. A. B.
——; Morgan, C. J.; Davis, N. R. Determination of tryptophan pyrrolase activity in rat liver homogenates. 215: 709
Baddams, H. M.
——; Chang, L. B. F.; Barritt, G. J. Evidence that glucagon acts on the liver to decrease mitochondrial calcium stores. 210: 73
Bailey, C. J.
——; Turner, P. D. Purification and properties of tryptophan synthase from baker's yeast (Saccharomyces cerevisiae). 209: 151
Bailey, J. R. See Leakey, J. E. A.
Balasubramanian, A. S. See George, S. T.
Balber, A. E. See Gonias, S. L.
Baldwin, J. E. See Adlington, R. M.
Baldwin, J. M. See Gomperts, B. D.
Ballard, F. J. See Chandler, C. S.; Gunn, J. M.
——; Francis, G. L. Effects of anabolic agents on protein breakdown in L6 myoblasts. 210: 243
Balzarini, J. See De Clercq, E.

Banchelli, G. See Buffoni, F.
Banga, J. P. See Segal, A. W.
Bannister, A. See Middle, F. A.
Barber, D. See Foote, N.; Greenwood, C.
Barbet, J. See Truneh, A.
Barbieri, L. See Stirpe, F.
——; Falasca, A.; Franceschi, C.; Licastro, F.; Rossi, C. A.; Stirpe, F. Purification and properties of two lectins from the latex of the euphorbiaceous plants Hura crepitans L. (sand–box tree) and Euphorbia characias L. (Mediterranean spurge). 215: 433
Bardsley, W. G. See Burguillo, F. J.
Barenholz, Y. See Michaelson, D. M.
Barkai, G. See Michaelson, D. M.
Barker, R. See Roff, C. F.
Barlati, S. See Vartio, T.
Barlet, J. P. See Ricquier, D.
Barman, T. E.
——; Hillaire, D.; Travers, F. Evidence for the two–step binding of ATP to myosin subfragment 1 by the rapid–flow–quench method. 209: 617
Barnwell, S. G.
——; Coleman, R. Abnormal secretion of proteins into bile from colchicine–treated isolated perfused rat livers. 216: 409
——; Godfrey, P. P.; Lowe, P. J.; Coleman, R. Biliary protein output by isolated perfused rat livers. Effects of bile salts. 210: 549
——; Lowe, P. J.; Coleman, R. Effect of taurochenodeoxycholate or tauroursodeoxycholate upon biliary output of phospholipids and plasma–membrane enzymes, and the extent of cell damage, in isolated perfused rat livers. 216: 107
Baron, M. D.
——; Sonksen, P. H. Elucidation of the quaternary structure of the insulin receptor. 212: 79
Barrett, A. J. See Anastasi, A.; McKay, M. J.
Barrett, J. See Clamp, J. R.
Barritt, G. J. See Baddams, H. M.; Parker, J. C.
——; Whiting, J. A. Exogenous phospholipase enzymes mimic effects of phenylephrine on calcium transport in hepatocytes. 210: 115
Barskaya, N. V. See Gusev, N. B.
Bartold, P. M.
——; Wiebkin, O. W.; Thonard, J. C. Proteoglycans of human gingival epithelium and connective tissue. 211: 119

Bartrons, R.
——; Hue, L.; Van Schaftingen, E.; Hers, H. G.
Hormonal control of fructose 2,6–bisphosphate concentration in isolated rat hepatocytes. 214: 829
Basford, J. M. See Jones, E. D.
Bashan, N. See Gahl, W. A.
Bassett, E. G.
Eosinophils and connective tissue catabolism. 213: 769
Bates, P. C. See Millward, D. J.; Odedra, B. R.
——; Grimble, G. K.; Sparrow, M. P.; Millward, D. J.
Myofibrillar protein turnover. Synthesis of protein–bound 3–methylhistidine, actin, myosin heavy chain and aldolase in rat skeletal muscle in the fed and starved states. 214: 593
——; Millward, D. J.
Myofibrillar protein turnover. Synthesis rates of myofibrillar and sarcoplasmic protein fractions in different muscles and the changes observed during postnatal development and in response to feeding and starvation. 214: 587
Bates, S. R. E. See Macartney, H. W.
Bauche, F.
——; Sabourault, D.; Giudicelli, Y.; Nordmann, J.; Nordmann, R.
Inhibition in vitro of acyl–CoA dehydrogenases by 2–mercaptoacetate in rat liver mitochondria. 215: 457
Baudhuin, P. See Devos, P.
Baumgarten, E.
——; Brand, M. D.; Pozzan, T.
Mechanism of activation of pyruvate dehydrogenase by mitogens in pig lymphocytes. 216: 359
Baumgarten, M. See Kirsch, D. M.
Bause, E.
Active–site–directed inhibition of asparagine N–glycosyltransferases with epoxy–peptide derivatives. 209: 323
Structural requirements of N–glycosylation of proteins. Studies with proline peptides as conformational probes. 209: 331
Baverel, G. See Durozard, D.
Bavetta, S. See Hesketh, T. R.
Bayliss, M. T.
——; Ridgway, G. D.; Ali, S. Y.
Differences in the rates of aggregation of proteoglycans from human articular cartilage and chondrosarcoma. 215: 705
——; Venn, M.; Maroudas, A.; Ali, S. Y.
Structure of proteoglycans from different layers of human articular cartilage. 209: 387
Bayney, R. M. See Phillips, I. R.; Shephard, E. A.
Bazill, G. W.
——; Haynes, M.; Garland, J.; Dexter, T. M.
Characterization and partial purification of a hemopoietic cell growth factor in WEHI–3 cell conditioned medium. 210: 747
Bazin, R.
——; Lavau, M.; Guichard, C.
Development of fatty acid–synthetic capacity in interscapular brown adipose tissue during suckling in genetically obese Zucker rats. 216: 543
Beach, N. L. See Khoja, S. M.
Beck, G. See LaBombardi, V. J.
Bedoya, F. See Krebs, H. A.
Beesley, T.
——; Gascoyne, N.; Knott–Hunziker, V.; Petursson, S.; Waley, S. G.; Jaurin, B.; Grundstroem, T.
The inhibition of class C β–lactamases by boronic acids. 209: 229
Behrens, C. M.
——; Enns, C. A.; Sussman, H. H.
Characterization of human fetal intestinal alkaline phosphatase. Comparison with the isoenzymes from the adult intestine and human tumor cell lines. 211: 553
Behrens, M. I. See Torres, J. C.
Belcourt, A. B. See Fincham, A. G.
Belda, F. J. F.
——; Carmona, F. G.; Canovas, F. G.; Gomez–Fernandez, J. C.; Lozano, J. A.
A kinetic study of the interaction between mitochondrial F_1 adenosine triphosphatase and adenylyl imidodiphosphate and guanylyl imidodiphosphate. 210: 727
Bell, J. E. See LiMuti, C.
Bell, W. R. See Connolly, D. T.
Bellingham, A. J. See Middle, F. A.
Bement, W. J. See Shedlofsky, S. I.
Bendiak, B.
——; Cook, G. M. W.
Comparative rates of transfer of N–acetylneuraminic acid to acceptors bearing one or more Gal(β1–4)GlcNAc terminus by the Gal(β1–4)GlcNAc(NeuAc–Gal) (α2–6)–sialyltransferase from embryonic chicken liver. Utilization of oligosaccharides as acceptors in sialyltransferase assays. 213: 253
Benito, M. See Lorenzo, M.
Bennett, A. D.
——; Shaw, W. V.
Resistance to fusidic acid in Escherichia coli mediated by the type I variant of chloramphenicol acetyltransferase. A plasmid–encoded mechanism involving antibiotic binding. 215: 29
Bennett, J.
Regulation of photosynthesis by reversible phosphorylation of the light–harvesting chlorophyll a/b protein. 212: 1
Bennick, A. See Wong, R. S. C.
——; Kells, D.; Madapallimattam, G.
Interaction of calcium ions and salivary acidic proline–rich proteins with hydroxyapatite. A possible aspect of inhibition of hydroxyapatite formation. 213: 11
Bensa, J. C.
——; Reboul, A.; Colomb, M. G.
Biosynthesis in vitro of complement subcomponents C1q, C1s and $C\bar{1}$ inhibitor by resting and stimulated human monocytes. 216: 385
Bentley, P. See Friedberg, T.
Bergman, E. N. See Pell, J. M.
Berl, L. See Winston, G. W.
Bernardini, I. See Gahl, W. A.
Berridge, M. J.
Rapid accumulation of inositol trisphosphate reveals that agonists hydrolyze polyphosphoinositides instead of phosphatidylinositol. 212: 849
——; Dawson, R. M. C.; Downes, C. P.; Heslop, J. P.; Irvine, R. F.
Changes in the levels of inositol phosphates after agonist–dependent hydrolysis of membrane phosphoinositides. 212: 473
Besterman, J. M.
——; Low, R. B.
Endocytosis: a review of mechanisms and plasma membrane dynamics. 210: 1
A comparison of iodinated and technetium labeled zymosan for measurement of particle binding and internalization by macrophages. Reply to comment. 214: 278
Beynon, R. J. See Bond, J. S.
Bhakdi, S.
——; Tranum–Jensen, J.
Molecular composition of the terminal membrane and fluid–phase C5b–9 complexes of rabbit complement. Absence of disulfide–bonded C9 dimers in the membrane complex.. 209: 753
Bhargava, P. M. See Reddy, E. S. P.
Bhargava, R.
——; Sachar, R. C.
Chloramphenicol stimulates acid phosphatase activity in germinating cotton (Gossypium hirsutum) embryos. 212: 73

Bhat, P. G. See Jacob, R. T.
Bhattacharyya, S. N. See Mohapatra, N.
Bhoola, K. D. See Fiedler, F.
Bhown, M. See DiMuzio, M. T.
Bick, R. J. See Tate, C. A.
Bicknell, R.
——; Knott-Hunziker, V.; Waley, S. G.
The pH-dependence of class B and class C β-lactamases. 213: 61
Biden, T. J.
——; Taylor, K. W.
Effects of ketone bodies on insulin release and islet-cell metabolism in the rat. 212: 371
Biebler, K. E. See Meisel, P.
Bienkowski, R. S.
Intracellular degradation of newly synthesized secretory proteins. 214: 1
Bijsterbosch, M. K.
——; Duursma, A. M.; Bouma, J. M. W.; Gruber, M.
Plasma clearance and endocytosis of cytosolic malate dehydrogenase in the rat. 210: 419
Bilton, R. F. See Owen, R. W.
Binderman, I. See Somjen, D.
Binet, A.
——; Claret, M.
α-Adrenergic stimulation of respiration in isolated rat hepatocytes. 210: 867
Binsted, N. See Blackburn, N. J.
Bird, J. W. C. See Kirschke, H.
Bird, M. I.
——; Nunn, P. B.
Metabolic homoeostasis of L-threonine in the normally fed rat. Importance of liver threonine dehydrogenase activity. 214: 687
Bird, T. A.
——; Levene, C. I.
The effect of a vitamin B-6 antagonist, 4-deoxypyridoxine, on the crosslinking of collagen in the developing chick embryo. 210: 633
Birnbaum, R. J.
——; Head, J. F.
Studies on the soluble phosphodiesterases of chicken gizzard smooth muscle. 215: 627
Bistrian, B. R. See Moldawer, L. L.
Bjoerk, I. See Danielsson, A.
Blackburn, G. L. See Moldawer, L. L.
Blackburn, N. J.
——; Hasnain, S. S.; Diakun, G. P.; Knowles, P. F.; Binsted, N.; Garner, C. D.
An extended x-ray-absorption-fine-structure study of the copper and zinc sites of freeze-dried bovine superoxide dismutase. 213: 765
Blackshear, P. J.
——; Nemenoff, R. A.; Avruch, J.
Insulin and growth factors stimulate the phosphorylation of a M_r-22000 protein in 3T3-L1 adipocytes. 214: 11
Blake, D. See Gutteridge, J. M. C.
Blakeborough, P.
——; Salter, D. N.; Gurr, M. I.
Zinc binding in cow's milk and human milk. 209: 505
Blakeley, D. M. See Brown, K. D.
Blakemore, W. F. See Abraham, D.
Blanchard, D.
——; Asseraf, A.; Prigent, M. J.; Cartron, J. P.
Miltenberger Class I and II erythrocytes carry a variant of glycophorin A. 213: 399
Blanquet, P. R.
Regulation of surface-membrane enzymes by lipid ordering. A model based on allosteric transition theory. 213: 479
Bleasdale, J. E.
——; Tyler, N. E.; Busch, F. N.; Quirk, J. G.
The influence of myo-inositol on phosphatidylglycerol synthesis by rat type II pneumonocytes. 212: 811
Bligny, R.
——; Douce, R.
Excretion of laccase by sycamore (Acer pseudoplatanus L.) cells. Purification and properties of the enzyme. 209: 489
Blok, C. M. See Ferwerda, W.
Blondel, B. See Praz, G. A.
Blostein, R. See Pan, B. T.
Blum, J. J. See Crawford, J. M.
Blumenthal, R. See Klausner, R. D.
Blumson, N. L. See Irvine, G. B.; Macartney, H. W.
Bocieck, S. See Boswell, A. P.
Bodmer, J. L.
——; Dean, R. T.
A comparison of iodinated and technetium-labeled zymosan for measurement of particle binding and internalization by macrophages. Comment. 214: 277
Bodner, J. B. See Gunn, J. M.
Bogusky, R. T.
——; Lowenstein, L. M.; Aoki, T. T.
The relationship between glutamate deamination and gluconeogenesis in kidney. 210: 695
Boiteux, A.
——; Markus, M.; Plesser, T.; Hess, B.; Malcovati, M.
Analysis of progress curves. Interaction of pyruvate kinase from Escherichia coli with fructose 1,6-bisphosphate and calcium ions. 211: 631
Bollen, M.
——; Gevers, G.; Stalmans, W.
The activity of glycogen synthase phosphatase limits hepatic glycogen deposition in the adrenalectomized starved rat. 214: 539
——; Hue, L.; Stalmans, W.
Effects of glucose on phosphorylase and glycogen synthase in hepatocytes from diabetic rats. 210: 783
Bolwell, G. P.
——; Northcote, D. H.
Arabinan synthase and xylan synthase activities of Phaseolus vulgaris. Subcellular localization and possible mechanism of action. 210: 497
Induction by growth factors of polysaccharide synthases in bean cell suspension cultures. 210: 509
Bond, J. S. See McKay, M. J.; Offermann, M. K.
——; Shannon, J. D.; Beynon, R. J.
Certain mouse strains are deficient in a kidney brush-border metallo-endopeptidase activity. 209: 251
Bonifacino, J. S.
——; Roguin, L. P.; Paladini, A. C.
Formation of complexes between ^{125}I-labeled human or bovine somatotropins and binding proteins in vivo in rat liver and kidney. 214: 121
Bonkowsky, H. L. See Shedlofsky, S. I.
Booth, I. R. See Ahmed, S.; Kroll, R. G.
Booth, R. F. G. See Harvey, S. A. K.
Bose, S. K. See Ghosh, S. K.
Boswell, A. P. See Robinson, M. N.
——; Moore, G. R.; Williams, R. J. P.; Harris, D. E.; Wallace, C. J. A.; Bocieck, S.; Welti, D.
Ionization of tyrosine and lysine residues in native and modified horse cytochrome c. 213: 679
Boteva, R. See Genov, N.
Bouazza, M. See Husson, A.
Boulter, D. See Gatehouse, J. A.
Bouma, J. M. W. See Bijsterbosch, M. K.
Bowyer, D. E. See Muir, E. M.
Boxer, D. H. See Speirs, A.
Bradford, N. M. See McGivan, J. D.
Brady, P. S.
——; Hoppel, C. L.
Peroxisomal palmitoyl-CoA oxidation in the Zucker rat. 212: 891
Brand, M. D. See Baumgarten, E.; Felber, S. M.
Brandenburg, D. See Tatnell, M. A.
Braun, D. G. See Chang, J. Y.
Bray, R. C. See Gutteridge, S.; Malthouse, J. P. G.
——; George, G. N.; Lange, R.; Meyer, O.

Studies by EPR spectroscopy of carbon monoxide oxidases from Pseudomonas carboxydovorans and Pseudomonas carboxydohydrogena. 211: 687
——; Gutteridge, S.; Lamy, M. T.; Wilkinson, T.
Equilibria among different molybdenum(V)–containing species from sulfite oxidase. Evidence for a halide ligand of molybdenum in the low–pH species. 211: 227
Breitkreutz, D. See Glanville, R. W.
Bremner, I. See Mehra, R. K.
Brett, C. T. See Waldron, K. W.
Brett, M.
——; Findlay, J. B. C.
Isolation and characterization of the cyanogen bromide peptides from the proteolytically derived N–terminal fragment of ovine opsin. 211: 661
Brewster, G. See Creba, J. A.
Brigelius, R. See Cadenas, E.
Brinckerhoff, C. E. See Nagase, H.
Brindley, D. N. See Pelech, S. L.
Brittain, T. See Hill, B. C.; Purdie, A.
Britton, P. See Taylor, C. F.
Bro, B. See Dich, J.
Brock, C. J.
——; Tanner, M. J. A.; Kempf, C.
The human erythrocyte anion–transport protein. Partial amino acid sequence, conformation and a possible molecular mechanism for anion exchange. 213: 577
Brocklehurst, K. See Salih, E.
——; Mushiri, S. M.; Patel, G.; Willenbrock, F.
A marked gradation in active–center properties in the cysteine proteinases revealed by neutral and anionic reactivity probes. Reactivity characteristics of the thiol groups of actinidin, ficin, papain, and papaya peptidase A towards 4,4'–dipyridyl disulfide and 5,5'–dithiobis–(2–nitrobenzoate) dianion. 209: 873
——; Salih, E.
A reevaluation of the nomenclature of the cysteine proteinases of Carica papaya and a rational basis for their identification 213: 559
——; Willenbrock, S. J. F.; Salih, E.
Effects of conformational selectivity and of overlapping kinetically influential ionizations on the characteristics of pH–dependent enzyme kinetics. Implications of free–enzyme pK_a variability in reactions of papain for its catalytic mechanism. 211: 701
Brocklehurst, K. W.
——; Hutton, J. C.
Calcium–dependent binding of cytosolic components to insulin–secretory granules results in calcium–dependent protein phosphorylation. 210: 533
Bronk, J. R. See Nicholls, T. J.
Brooks, C. L. See Colca, J. R.
Brophy, P. J.
——; Hayer, M. K.; Riddell, F. G.
Measurement of intracellular potassium ion concentrations by NMR. 210: 961
Brosnan, J. T. See Squires, E. J.
Brosnan, M. E.
——; Farrell, R.; Wilansky, H.; Williamson, D. H.
Effect of starvation and refeeding on polyamine concentrations and ornithine decarboxylase antizyme in mammary gland of lactating rats. 212: 149
Brown, E.
——; Goodwin, G. H.
Comparison of the high–mobility–group chromosomal proteins in rainbow–trout (Salmo gairdnerii) liver and testis. 215: 531
Brown, F. See LaBombardi, V. J.
Brown, G. K. See Scholem, R. D.
Brown, J. G.
——; Van Bueren, J.; Millward, D. J.
The effect of triiodothyronine administration on protein synthesis in the diabetic rat. 214: 637
Brown, K. D.
——; Blakeley, D. M.
Inhibition of the binding of ^{125}I–labeled epidermal growth factor to mouse cells by a mitogen in goat mammary secretions. 212: 465
Brown, M. A. See Anastasi, A.
Bruckdorfer, K. R. See Hassall, D. G.
Brunengraber, H. See Tomera, J. F.
Brunori, M. See Jones, G. D.; Sarti, P.
——; Silvestrini, M. C.; Wilson, M. T.; Weiss, H.
Transient kinetic studies of Neurospora crassa cytochrome c oxidase. 215: 425
Bryant, D. T. W.
——; Andrews, P.
A simple procedure for purifying mammalian duodenal calcium–binding proteins on a 100mg scale and an investigation of the stoichiometry of their high–affinity binding of calcium ions. 211: 709
Bubacz, D. G. See Pool, G. L.
Buckingham, M. J. See Nicholson, J. K.
Buffoni, F.
——; Banchelli, G.; Ignesti, G.; Pirisino, R.; Raimondi, L.
The presence of an inhibitor of benzylamine oxidase in human blood plasma. 211: 767
Bunce, G. E.
——; Wilson, G. R.; Mills, C. F.; Klopper, A.
Studies on the role of zinc in parturition in the rat. 210: 761
Buquet, C. See Husson, A.
Burchell, B. See Scragg, I.
——; Pratt, G. J.; Duffy, I.; West, L.
Identification of increased amounts of UDP–glucuronyltransferase protein in phenobarbital–treated chick–embryo liver cells. 214: 517
Burgess, A. I.
——; Esnouf, M. P.; Rose, K.; Offord, R. E.
Evidence for the vitamin K–dependent γ–carboxylation of the first glutamic acid residue in peptide substrates containing a diglutamyl sequence. 215: 75
Burgess, G. M. See Putney, J. W. Jr.
Burguillo, F. J.
——; Wright, A. J.; Bardsley, W. G.
Use of the F test for determining the degree of enzyme–kinetic and ligand–binding data. A Monte Carlo simulation study. 211: 23
Burk, R. F. See Correia, M. A.
——; Patel, K.; Lane, J. M.
Reduced glutathione protection against rat liver microsomal injury by carbon tetrachloride. Dependence on molecular oxygen. 215: 441
Burke, M. D.
——; Murray, G. I.; Lees, G. M.
Fluorescence–microscope measurement of intracellular cytochrome P–450 enzyme activity (ethoxyresorufin O–deethylation) in unfixed liver sections. 212: 15
Burley, R. W.
——; Sleigh, R. W.
Hydrophobic chromatography of proteins in urea solutions. The separation of apoproteins from a lipoprotein of avian egg yolk. 209: 143
Burris, R. H. See Guth, J. H.
Busch, F. N. See Bleasdale, J. E.
Butcher, F. R. See Roberts, M. L.
Butler, B. M. See O'Fagain, C.
Butler, W. T. See DiMuzio, M. T.; Fincham, A. G.; Prince, C. W.
Bygrave, F. L. See Reinhart, P. H.; Taylor, W. M.

Bylund-Fellenius, A. C. See Rennie, M. J.
Byrne, J. See Davidson, M.

Cacan, R. See Cecchelli, R.
Cadenas, E.
——; Mueller, A.; Brigelius, R.; Esterbauer, H.; Sies, H.
Effects of 4-hydroxynonenal on isolated hepatocytes. Studies on chemiluminescence response, alkane production and glutathione status. 214: 479
Cahour, A.
——; Debeire, P.; Hartmann, L.; Montreuil, J.
Comparative study of the carbohydrate moieties of normal and pathological human immunoglobulins M. 211: 55
Cain, K. See Nicholson, J. K.
——; Reiner, E.; Williams, D. G.
The identification and characterization of two separate carboxylesterases in guinea-pig serum. 215: 91
——; Skilleter, D. N.
Comparison of cadmium-metallothionein synthesis in parenchymal and nonparenchymal rat liver cells. 210: 769
Caldarera, C. M. See Guarnieri, C.
Caldarone, E. M. See Pell, J. M.
Caldecourt, M. A. See Palmer, T. N.
Caldes, T. See Lorenzo, M.
Callahan, J. W. See Jones, C. S.
Calvo, J. C.
——; Radicella, J. P.; Charreau, E. H.
Measurement of specific radioactivities in labeled hormones by self-displacement analysis. 212: 259
Cammack, R. See Lalla-Maharajh, W. V.
Cammarano, P. See Londei, P.
Camp, R. See Fincham, N.
Campbell, A. K. See Edwards, S. W.; Hallett, M. B.
——; Patel, A.
A homogeneous immunoassay for cyclic nucleotides based on chemiluminescence energy transfer. 216: 185
Campbell, C. H.
——; Miller, A. L.; Rome, L. H.
Incorporation of mannose 6-phosphate receptors into liposomes. Receptor topography and binding of α-mannosidase 214: 413
Canovas, F. G. See Belda, F. J. F.
Cantau, B. See Assimacopoulos-Jeannet, F.
Cao, Q. P. See Zhang, Y. S.
Capeau, J. See Cherqui, G.
Carden, M. J.
——; Eagles, P. A. M.
Neurofilaments from ox spinal nerves. Isolation, disassembly, reassembly and crosslinking properties. 215: 227
Cardy, C. A. See Hobkirk, R.
Carew, T. E. See Pittman, R. C.
Carlier, A. R. See Nsimba-Lubaki, M.
Carlsson, S. R.
——; Stigbrand, T. I.
Purification and characterization of the mouse thymocyte Thy-1 glycoprotein. 211: 641
Carlstedt, I. See Coester, L.
——; Lindgren, H.; Sheehan, J. K.
The macromolecular structure of human cervical-mucus glycoproteins. Studies on fragments obtained after reduction of disulfide bridges and after subsequent trypsin digestion. 213: 427
——; Lindgren, H.; Sheehan, J. K.; Ulmsten, U.; Wingerup, L.
Isolation and characterization of human cervical-mucus glycoproteins. 211: 13
Carmona, F. G. See Belda, F. J. F.
Caron, M. See Cherqui, G.
Carpenter, C. A. See Saggerson, E. D.
Carroll, K. K. See Ravi, K.
Carroll, M. J.
——; Young, M.
The relationship between placental protein synthesis and transfer of amino acids. 210: 99
Carter, N. See Phillips, I. R.
Carter, P. E.
——; Dunbar, B.; Fothergill, J. E.
The serine proteinase chain of human complement component $C\bar{1}s$. Cyanogen bromide cleavage and N-terminal sequences of the fragments. 215: 565
Cartron, J. P. See Blanchard, D.
Carvalho, A. P. See Vale, M. G. P.
Carver, K. A.
——; Hope, A. B.; Walker, D. A.
Adenine nucleotide status, phosphoglycerate reduction and photosynthetic phosphorylation in a reconstituted chloroplast system. 210: 273
Cary, P. D. See Turner, C.
Casals, C.
——; Garcia-Barreno, P.; Municio, A. M.
Lipogenesis in liver, lung and adipose tissue of rats fed with oleoylanilide. 212: 339
Cass, C. E. See Koren, R.
Cassiman, J. J. See Saison, M.
Casteels, R. See Raeymaekers, L.
Caterson, I. D. See Plehwe, W. E.
Cawston, T. E. See Galloway, W. A.
——; Murphy, G.; Mercer, E.; Galloway, W. A.; Hazleman, B. L.; Reynolds, J. J.
The interaction of purified rabbit bone collagenase with purified rabbit bone metalloproteinase inhibitor. 211: 313
Cawthorne, M. A. See Smith, S. A.
Ceccarini, C.
——; Atkinson, P. H.
Endoglycosidase H-sensitive glycopeptides in eleven different animal cells. 212: 881
Cecchelli, R.
——; Cacan, R.; Hoflack, B.; Ververt, A.
Glycosylation of proteins from sugar nucleotides by whole cells. Effect of ammonium chloride treatment on mouse thymocytes. 216: 681
Cederbaum, A. I. See Winston, G. W.
——; Dicker, E.
Inhibition of microsomal oxidation of alcohols and of hydroxyl radical-scavenging agents by the iron-chelating agent desferrioxamine. 210: 107
Cenci Di Bello, I.
——; Dorling, P.; Winchester, B.
The storage products in genetic and swainsonine-induced human mannosidosis. 215: 693
Cerasi, E. See Sussman, K. E.
Cercek, B.
——; Wilson, S. R.; Houslay, M. D.
Heterogeneity of cyclic nucleotide phosphodiesterases in liver endoplasmic reticulum. 213: 89
Cerniglia, C. E.
——; Fu, P. P.; Yang, S. K.
Regio- and stereoselective metabolism of 4-methylbenz[a]anthracene by the fungus Cunninghamella elegans. 216: 377
Cha, C. I. See Goldstein, L.
Chagoya de Sanchez, V. See Souness, J. E.
Chalifour, L. E.
——; Dakshinamurti, K.
The partial characterization of the binding of avidin-biotin complex to rat liver plasma membrane. 210: 121
Chalmers, J. See Hayes, J. D.
Chan, T. S.
——; Lakhchaura, B. D.; Hsu, T. F.
Differences in deoxycytidine metabolism in mouse and rat. 210: 367
Chandler, C. S.
——; Ballard, F. J.
Inhibition of pyruvate carboxylase degradation and total protein breakdown by lysosomotropic agents in 3T3-L1 cells. 210: 845
Chang, C. L. See Amatruda, J. M.

Chang, J. Y.
——; Herbst, H.; Aebersold, R.; Braun, D. G.
A new isotype sequence (V_κ27) of the variable region of κ-light chains from a mouse hybridoma-derived anti-(streptococcal group A polysaccharide) antibody containing an additional cysteine residue. Application of the dimethylaminoazobenzene isothiocyanate technique for the isolation of peptides. 211: 173
——; Knecht, R.; Braun, D. G.
A new method for the selective isolation of cysteine-containing peptides. Specific labeling of the thiol group with a hydrophobic chromophore. 211: 163
Chang, L. B. F. See Baddams, H. M.
Chaplin, M. F. See Fulcher, I. S.
Chapman, B. E. See Endre, Z. H.
Chapman, G. E. See Turner, C.
Charles, S.
——; Henquin, J. C.
Distinct effects of various amino acids on calcium-45 fluxes in rat pancreatic islets. 214: 899
Charles, S. A. See Law, M. Y.
Charlton, J. P.
——; Huang, C. H.; Huang, L. C.
Chemical crosslinking of cyclic AMP-dependent protein kinase and its dissimilar subunits. 209: 581
Charreau, E. H. See Calvo, J. C.
Chasson, A. L. See Ralston, J. S.
Chatterjee, B.
——; Demyan, W. F.; Lalwani, N. D.; Reddy, J. K.; Roy, A. K.
Reversible alteration of hepatic messenger RNA species for peroxisomal and nonperoxisomal proteins induced by the hypolipidemic drug Wy-14,643 214: 879
Chen, G. X. See Smith, B. E.
Cherqui, G.
——; Caron, M.; Capeau, J.; Picard, J.
Evidence for surface glycoprotein involvement in the intracellular bioactivity of insulin in rat adipocytes. 214: 111
Chideckel, E. W.
——; Edwards, D.
Nonmetabolizable amino acids are potent stimulators of hepatic and renal ornithine decarboxylase activity. 210: 617
Chigorno, V. See Ghidoni, R.
Childs, R. A.
——; Pennington, J.; Uemura, K.; Scudder, P.; Goodfellow, P. N.; Evans, M. J.; Feizi, T.
High-molecular-weight glycoproteins are the major carriers of the carbohydrate differentiation antigens I, i and SSEA-1 of mouse teratocarcinoma cells. 215: 491
Chin, T. K.
——; Eagles, P. A. M.; Maggs, A.
The proteolytic digestion of ox neurofilaments with trypsin and α-chymotrypsin. 215: 239
Chisholm, A. B. See Allan, E. H.
——; Allan, E. H.; Titheradge, M. A.
Regulation of mitochondrial pyruvate carboxylation in isolated hepatocytes by acute insulin treatment. 214: 451
Chlebowski, J. F. See Offermann, M. K.
——; Williams, K.
Differential scanning calorimetry of α_2-macroglobulin and α_2-macroglobulin-proteinase complexes. 209: 725
Chou, K. C.
Low-frequency vibrations of helical structures in protein molecules. 209: 573
Identification of low-frequency modes in protein molecules. 215: 465
Christen, P. See Kirsten, H.
Christie, D. L. See Gagnon, J.
——; Gagnon, J.
Amino acid sequence of the Bb fragment from complement Factor B. Sequence of the major cyanogen bromide-cleavage peptide (CB-II) and completion of the sequence of the Bb fragment. 209: 61
Christoff, M. See Levy, H. R.
Christophe, J. See Asselin, J.; Malaisse, W. J.; Vandermeers, A.
Christopherson, R. See Rannels, D. E.
Chu, T. M. See Lee, C. L.
Chuang, D. T.
——; Hu, C. W.; Patel, M. S.
Induction of the branched-chain 2-oxo acid dehydrogenase complex in 3T3-L1 adipocytes during differentiation. 214: 177
Cino, S. See Grazi, E.
Clamp, J. R. See Creeth, J. M.
——; Cooper, B.; Creeth, J. M.; Ene, D.; Barrett, J.; Gough, M.
The presence of polysaccharide in normal human gastric mucus. 215: 421
Clanachan, A. S. See Jarvis, S. M.
Clandinin, M. T. See Foot, M.; Neelands, P. J.
Claret, M. See Binet, A.
Clark, A. S.
——; Mitch, W. E.
Comparison of protein synthesis and degradation in incubated and perfused muscle. 212: 649
Clark, J. B. See Harvey, S. A. K.
Clark, M. G. See Patten, G. S.
Clark, M. R. See Davis, J. S.
Clauwaert, J. See Martinez, M. C.
Clemens, M. J. See Gewert, D. R.
Closset, J.
——; Smal, J.; Gomez, F.; Hennen, G.
Purification of the 22,000- and 20,000-mol.-wt. forms of human somatotropin and characterization of their binding to liver and mammary binding sites. 214: 885
Cockcroft, S. See Allan, D.
Coester, L.
——; Malstroem, A.; Carlstedt, I.; Fransson, L. A.
The core protein of fibroblast proteoheparan sulfate consists of disulfide-bonded subunits. 215: 417
Cogger, H. G. See Guinea, M. L.; Tamiya, N.
Coggins, J. R. See Lewendon, A.; Smith, D. D. S.
Cohen, S. See Margalit, R.
Colca, J. R.
——; Brooks, C. L.; Landt, M.; McDaniel, M. L.
Correlation of calcium- and calmodulin-dependent protein kinase activity with secretion of insulin from islets of Langerhans. 212: 819
——; Kotagal, N.; Lacy, P. E.; McDaniel, M. L.
Modulation of active calcium uptake by the islet-cell endoplasmic reticulum. 212: 113
Cole, K. D.
——; Little, G. H.
UDP-glucuronosyltransferase activity and bilirubin conjugation in the bullfrog. 212: 265
Coleman, R. See Barnwell, S. G.
Collins, J. G. See White, M. D.
Collins, M. See Davidson, M.
Colomb, M. G. See Bensa, J. C.; Villiers, C. L.
Colosimo, A. See Jones, G. D.; Sarti, P.
Combes-George, M. See Ricquier, D.
Comley, J. C. W.
——; Jaffe, J. J.
The conversion of exogenous retinol and related compounds into retinyl phosphate mannose by adult Brugia pahangi in vitro. 214: 367
Comte, M.
——; Maulet, Y.; Cox, J. A.
Calcium-dependent high-affinity complex formation between calmodulin and melittin. 209: 269
Conde, R. See Haim, L.
Conneely, O. M.
——; Greene, J. M.; Headon, D. R.; Hsiao, J.; Ungar, F.
Distribution of membrane cholesterol of adrenal cortical cells after corticotropin stimulation. 214: 561

Connolly, D. T.
——; Townsend, R. R.; Kawaguchi, K.; Hobish, M. K.; Bell, W. R.; Lee, Y. C.
Binding and endocytosis of glycoproteins and neoglycoproteins by isolated rabbit hepatocytes. 214: 421
Conrad, H. E. See Delaney, S. R.
Conroy, S. C. See Perkins, R. E.
Cook, G. A. See Stephens, T. W.
——; Otto, D. A.; Cornell, N. W.
Malonyl-CoA inhibition of carnitine palmitoyltransferase: interpretation of I_{50} and K_I values. 212: 525
Cook, G. M. W. See Bendiak, B.
Cook, J. S.
——; Pogson, C. I.
Tryptophan and glucose metabolism in rat liver cells. The effects of DL-6-chlorotryptophan, 4-chloro-3-hydroxyanthranilate and pyrazinamide. 214: 511
Cook, R. R.
——; Powers, J. C.
Benzyl p-guanidinothiobenzoate hydrochloride, a new active-site titrant for trypsin and trypsin-like enzymes. 215: 287
Cooke, B. A. See Sullivan, M. H. F.
Cooper, B. See Clamp, J. R.; Creeth, J. M.
Cooper, B. A. See Watkins, D.
Cooper, C. See Ittmann, M. M.
Cooper, E.
——; Spaulding, S. W.
HMG (high-mobility-group)-14/17-like proteins in calf thyroid. Thyrotropin-dependent phosphorylation and comparison with calf thymus proteins. 215: 643
Cordiner, S. J.
——; Jordan, T. W.
Inhibition by sporidesmin of hepatocyte bile acid transport. 212: 197
Cornell, N. W. See Cook, G. A.
Cornish, A. See Fox, K. R.
Cornish-Bowden, A. See Dixon, H. B. F.
The amino acid compositions of proteins are correlated with their molecular sizes. 213: 271
Corongiu, F. P.
——; Lai, M.; Milia, A.
Carbon tetrachloride, bromotrichloromethane and ethanol acute intoxication. New chemical evidence for lipid peroxidation in rat tissue microsomes. 212: 625
Correia, M. A.
——; Burk, R. F.
Defective utilization of heme in selenium-deficient rat liver. 214: 53
Corrigan, A. P.
——; Rider, C. C.
Multiple chromatographic forms of ATP citrate lyase from rat liver. 214: 299
Corvera, S.
——; Garcia-Sainz, J. A.
Hormonal stimulation of mitochondrial glutaminase. Effects of vasopressin, angiotensin II, adrenaline, and glucagon. 210: 957
Cothran, W. C. See Fincham, A. G.
Cotton, W. See Strange, R. C.
Coude, F. X.
——; Grimber, G.; Parvy, P.; Rabier, D.; Petit, F.
Inhibition of ureagenesis by valproate in rat hepatocytes. Role of N-acetylglutamate and acetyl-CoA. 216: 233
Cousins, R. J. See Weiner, A. L.
Cowell, G. M. See Danielsen, E. M.
Cox, D. N. See Wise, J. G.
Cox, D. W. G.
——; Morris, P. G.; Feeney, J.; Bachelard, H. S.
Phosphorus-31 NMR studies on cerebral energy metabolism under conditions of hypoglycemia and hypoxia in vitro. 212: 365
Cox, G. B. See Fimmel, A. L.; Jans, D. A.; Senior, A. E.
——; Jans, D. A.; Gibson, F.; Langman, L.; Senior, A. E.; Fimmel, A. L.
Oxidative phosphorylation by mutant Escherichia coli membranes with impaired proton permeability. 216: 143
Cox, J. A. See Comte, M.
Cox, M. See Geheb, M.
Crabbe, M. J. C. See Ting, H. H.
Crane, D. See Sies, H.
Crawford, J. M.
——; Blum, J. J.
Quantitative analysis of flux along the gluconeogenic, glycolytic and pentose phosphate pathways under reducing conditions in hepatocytes isolated from fed rats. 212: 585
Creba, J. A.
——; Downes, C. P.; Hawkins, P. T.; Brewster, G.; Michell, R. H.; Kirk, C. J.
Rapid breakdown of phosphatidylinositol 4-phosphate and phosphatidylinositol 4,5-bisphosphate in rat hepatocytes stimulated by vasopressin and other calcium-mobilizing hormones. 212: 733
Creek, K. E.
——; Morre, D. J.; Silverman-Jones, C. S.; Shidoji, Y.; De Luca, L. M.
Mannosyl carrier functions of retinyl phosphate and dolichyl phosphate in rat liver endoplasmic reticulum. 210: 541
——; Sly, W. S.
Biosynthesis and turnover of the phosphomannosyl receptor in human fibroblasts. 214: 353
Creeth, J. M. See Clamp, J. R.; Harding, S. E.
——; Cooper, B.; Donald, A. S. R.; Clamp, J. R.
Studies of the limited degradation of mucus glycoproteins. The effect of dilute hydrogen peroxide. 211: 323
Crettaz, M. See Fehlmann, M.; Kahn, C. R.
Crie, J. S.
——; Ord, J. M.; Wakeland, J. R.; Wildenthal, K.
Inhibition of cardiac proteolysis by colchicine. Selective effects on degradation of protein subclasses. 210: 63
Cromlish, J. A.
——; Flynn, T. G.
Purification and characterization of an enzymically active cleavage product of pig kidney aldehyde reductase. 209: 597
Crompton, M. See Goldstone, T. P.
——; Kessar, P.; Al-Nasser, I.
The α-adrenergic-mediated activation of the cardiac mitochondrial calcium uniporter and its role in the control of intramitochondrial calcium in vivo. 216: 333
Cross, A. R.
——; Jones, O. T. G.; Garcia, R.; Segal, A. W.
The subcellular localization of ubiquinone in human neutrophils. 216: 765
Croy, R. R. D. See Gatehouse, J. A.
Crumpton, M. J. See Loube, S. R.
Cruse, W. B. T. See Kamiya, K.
Cruz, T. F. See Foot, M.
Cuchillo, C. M. See Martinez, M. C.
Cuezva, J. M. See Fernandez, E.
Cui, D. F. See Zhang, Y. S.
Curry, V. A. See Saklatvala, J.
Curtain, C. C.
——; Looney, F. D.; Regan, D. L.; Ivancic, N. M.
Changes in the ordering of lipids in the membrane of Dunaliella in response to osmotic-pressure changes. An ESR study. 213: 131
Curzon, G. See Hutson, P. H.
Cusack, N. J.
——; Pearson, J. D.; Gordon, J. L.
Stereoselectivity of ectonucleotidases on vascular endothelial cells. 214: 975

Dabeva, M. See Dudov, K.
Daday, A. See Slatyer, B.

Dahl, K. H.
——; Eklund, H.; McKinley–McKee, J. S.
Enantioselective affinity labeling of horse liver alcohol dehydrogenase. Correlation of inactivation kinetics with the three–dimensional structure of the enzyme. 211: 391
Dahlbaack, B.
Purification of human vitamin K–dependent protein S and its limited proteolysis by thrombin. 209: 837
Purification of human C4b–binding protein and formation of its complex with vitamin K–dependent protein S. 209: 847
Dahlbaeck, B.
——; Hildebrand, B.
Degradation of human complement component C4b in the presence of the C4b–binding protein–protein S complex. 209: 857
Dakshinamurti, K. See Chalifour, L. E.
Dall'olio, F. See Serafini–Cessi, F.
Damle, S. P. See Gloessl, J.
Danahy, S. A. See Amatruda, J. M.
Danan, J. L.
——; Mathieu, H.
Gel–permeation high–performance liquid chromatography as a powerful technique for rapid analysis of calcitriol (1,25–dihydroxycholecalciferol) receptors. 209: 223
Danello, M. A. See Strewler, G. J.
Daniel, R. M. See Walsh, K. A. J.
Danielsen, E. M.
——; Cowell, G. M.; Noren, O.; Sjostrom, H.; Dorling, P. R.
Biosynthesis of intestinal microvillar proteins. The effect of swainsonine on posttranslational processing of aminopeptidase N. 216: 325
——; Cowell, G. M.; Poulsen, S. S.
Biosynthesis of intestinal microvillar proteins. Role of the Golgi complex and microtubules. 216: 37
——; Noren, O.; Sjoestroem, H.
Biosynthesis of intestinal microvillar proteins. Processing of aminopeptidase N by microsomal membranes. 212: 161
——; Sjoestroem, H.; Noren, O.
Biosynthesis of intestinal microvillar proteins. Pulse–chase labeling studies on maltase–glucoamylase, aminopeptidase A, and dipeptidyl peptidase IV. 210: 389
Danielsson, A.
——; Bjoerk, I.
Properties of antithrombin–thrombin complex formed in the presence and in the absence of heparin. 213: 345
Danner, D. J. See Heffelfinger, S. C.
Danson, M. J. See Robinson, M. S.
Das, M. R. See Reddy, E. S. P.
Davidson, D. J. See Jones, C. S.
Davidson, M.
——; Collins, M.; Byrne, J.; Vora, S.
Alterations in phosphofructokinase isoenzymes during early human development. Establishment of adult organ–specific patterns. 214: 703
Davies, A.
——; Gormally, J.; Wyn–Jones, E.; Wedlock, D. J.; Phillips, G. O.
A study of factors influencing hydration of sodium hyaluronate from compressibility and high–precision densimetric measurements. 213: 363
Davis, A. T. See Ahmed, K.
Davis, J. S.
——; Clark, M. R.
Activation of protein kinase in the bovine corpus luteum by phospholipid and calcium. 214: 569
Davis, N. R. See Badawy, A. A. B.
Dawson, A.
——; Wood, E. J.
Equilibrium and kinetic studies of oxygen binding to fragments of Lymnaea stagnalis (freshwater snail) hemocyanin obtained by proteolytic digestion. 209: 519
Dawson, A. P.
——; Fulton, D. V.
Some properties of the calcium–stimulated ATPase of a rat liver microsomal fraction. 210: 405
Dawson, R. M. C. See Berridge, M. J.; Irvine, R. F.
——; Irvine, R. F.; Hemington, N. L.; Hirasawa, K.
The alkaline phospholipase A_1 of rat liver cytosol. 209: 865
Dean, P. D. G. See Middle, F. A.
Dean, R. T. See Bodmer, J. L.
Dean Peter D. G. See Hey, Y.
Debeer, L. J. See Van Veldhoven, P.
Debeire, P. See Cahour, A.
Decaux, J. F. See Ferre, P.
Decker, R. S. See Matthews, I. T. W.
De Clercq, E.
——; Descamps, J.; Balzarini, J.; Fukui, T.; Allaudeen, H. S.
Antiviral activity of the 3'–amino derivative of (E)–5–(2–bromovinyl)–2'–deoxyuridine. 211: 439
Degn, H. See Lloyd, D.
Delaney, S. J.
——; Wilkinson, D. G.; Hames, B. D.
Phosphorylation of spore coat proteins during development of Dictyostelium discoideum. 212: 699
Delaney, S. R.
——; Conrad, H. E.
Changes in disaccharide composition of heparan sulfate fractions with increasing degrees of sulfation. 209: 315
De Lange, J. See Kempen, H. J. M.
Delauney, A. J. See Gatehouse, J. A.
Delfino, J. M. See Fernandez, H. N.
Deliconstantinos, G.
——; Ramantanis, G.
Alterations in the activities of hepatic plasma membrane and microsomal enzymes during liver regeneration. 212: 445
Della Ragione, F.
——; Erwin, B. G.; Pegg, A. E.
Studies of the acetyl–CoA–binding site of rat liver spermidine/spermine N¹–acetyltransferase. 213: 707
——; Pegg, A. E.
Effect of analogs of 5'–methylthioadenosine on cellular metabolism. Inactivation of S–adenosylhomocysteine hydrolase by 5'–isobutylthioadenosine. 210: 429
Studies of the specificity and kinetics of rat liver spermidine/spermine N¹–acetyltransferase. 213: 701
DeLuca, H. F. See Tanaka, Y.
De Luca, L. M. See Creek, K. E.; Shidoji, Y.
De Matteis, F.
——; Gibbs, A. H.; Hollands, C.
N–alkylation of the heme moiety of cytochrome P–450 caused by substituted dihydropyridines. Preferential attack of different pyrrole nitrogen atoms after induction of various cytochrome P–450 isoenzymes. 211: 455
De Metz, M.
——; Soute, B. A. M.; Hemker, H. C.; Vermeer, C.
Stimulation of the vitamin K–dependent carboxylase from bovine liver. 209: 719
Demigne, C. See Fafournoux, P.
Demyan, W. F. See Chatterjee, B.
Denborough, M. A. See White, M. D.
De Neef, P. See Asselin, J.
Denton, J.
——; Lane, D. A.; Thunberg, L.; Slater, A. M.; Lindahl, U.
Binding of platelet factor 4 to heparin oligosaccharides. 209: 455
De Petro, G. See Vartio, T.

De Pury, H. See Rose, K.
De Rosa, M. See Londei, P.
Desai, N. N.
——; Allen, A. K.; Neuberger, A.
The properties of potato (Solanum tuberosum) lectin after deglycosylation by trifluoromethanesulfonic acid. 211: 273
Descamps, J. See De Clercq, E.
De Schutter, G. See Raeymaekers, L.
Desideri, A. See Morpurgo, L.; Musci, G.
Deufel, T. See Kirsch, D. M.
De Verneuil, H.
——; Sassa, S.; Kappas, A.
Effects of polychlorinated biphenyl compounds, 2,3,7,8-tetrachlorodibenzo-p-dioxin, phenobarbital and iron on hepatic uroporphyrinogen decarboxylase. Implications for the pathogenesis of prophyria. 214: 145
Devos, P.
——; Baudhuin, P.; Van Hoof, F.; Hers, H. G.
The alpha particulate liver glycogen. A morphometric approach to the kinetics of its synthesis and degradation. 209: 159
Dexter, T. M. See Bazill, G. W.
Diakun, G. P. See Blackburn, N. J.
Dibner, M. D. See Downes, C. P.
Dice, J. F. See McElligott, M. A.
Dich, J.
——; Bro, B.; Grunnet, N.; Jensen, F.; Kondrup, J.
Accumulation of triacylglycerol in cultured rat hepatocytes is increased by ethanol and by insulin and dexamethasone. 212: 617
Dicker, E. See Cederbaum, A. I.
Dickinson, F. M. See Hart, G. J.
Dieberg, G. See Sedlmeier, D.
Dierks-Ventling, C. See Hertel, C.
Di Maggio, D. See Orlando, A. R.
DiMuzio, M. T.
——; Bhown, M.; Butler, W. T.
The biosynthesis of dentine γ-carboxyglutamic acid-containing proteins by rat incisor odontoblasts in organ culture. 216: 249
DiStefano, J. F. See LaBombardi, V. J.
Dixon, H. B. F. See Adams, S. R.
——; Cornish-Bowden, A.
Terminology for sialic acids. 215: 711
Dixon, R. A. See McLean, P. A.
Dobson, M. J. See Perkins, R. E.
Docherty, K. See Maguire, G. A.
Dodd, N. J. F. See Whetton, A. D.
Dohm, G. L. See Espinal, J.
——; Newsholme, E. A.
Metabolic control of hepatic gluconeogenesis during exercise. 212: 633
Doig, M. T. See Sur, P.
Dolby, J. See Scudder, P.
Donald, A. S. R. See Creeth, J. M.
Donaldson, I. A. See Lomax, M. A.
Doonan, S. See Passarella, S.
Dopere, F. See Mvumbi, L.
Dorling, P. See Cenci Di Bello, I.
Dorling, P. R. See Danielsen, E. M.
Douce, R. See Bligny, R.; Neuburger, M.
Downes, C. P. See Berridge, M. J.; Creba, J. A.
——; Dibner, M. D.; Hanley, M. R.
Sympathetic denervation impairs agonist-stimulated phosphatidylinositol metabolism in rat parotid glands. 214: 865
——; Wusteman, M. M.
Breakdown of polyphosphoinositides and not phosphatidylinositol accounts for muscarinic agonist-stimulated inositol phospholipid metabolism in rat parotid glands. 216: 633
Downie, J. A. See Fimmel, A. L.; Jans, D. A.
Drake, A. F. See Karmali, A.; Tatham, A. S.
Dreyfus, J. C. See Meienhofer, M. C.
Drouven, B. J. See Evans, C. H.
Drummond, A. H. See Guild, S.
Dubin, A. See Koj, A.
Dubois, M. P. See Ricquier, D.
Duddridge, R. J. See Goldstone, T. P.
Dudov, K.
——; Dabeva, M.
Post-transcriptional regulation of ribosome formation in the nucleus of regenerating rat liver. 210: 183
Duee, P. H. See Pegorier, J. P.
Duffy, I. See Burchell, B.
Dunbar, B. See Carter, P. E.; Perkins, R. E.
Duncan, A. See Robins, S. P.
Duncan, T. M. See Wise, J. G.
Dunn, B. M.
——; Lewitt, M.; Pham, C.
Inhibition of pepsin by analogs of pepsinogen-(1-12)-peptide with substitutions in the 4-7 sequence region. 209: 355
Durozard, D.
——; Baverel, G.
Stimulation of glutamine metabolism by 3-aminopicolinate in isolated dog kidney-cortex tubules. 210: 483
Dutton, G. J. See Scragg, I.
Duursma, A. M. See Bijsterbosch, M. K.
Duzhenkova, I. V. See Gusev, N. B.

Eagles, P. A. M. See Carden, M. J.; Chin, T. K.
Eckel, J.
——; Pandalis, G.; Reinauer, H.
Insulin action on the glucose transport system in isolated cardiocytes from adult rat. 212: 385
Edwards, D. See Chideckel, E. W.
Edwards, M. R. See O'Brien, M. M.; Sharp, J. A.
Edwards, S. W.
——; Morgan, B. P.; Hoy, T. G.; Luzio, J. P.; Campbell, A. K.
Complement-mediated lysis of pigeon erythrocyte ghosts analyzed by flow cytometry. 216: 195
Eggermont, J. See Raeymaekers, L.
Eglinton, D. G. See Greenwood, C.; Hill, B. C.
Eklund, H. See Dahl, K. H.
Ekman, G. See Uldbjerg, N.
Elce, J. S. See Kimura, S.
Elder, G. H.
——; Tovey, J. A.; Sheppard, D. M.
Purification of uroporphyrinogen decarboxylase from human erythrocytes. Immunochemical evidence for a single protein with decarboxylase activity in human erythrocytes and liver. 215: 45
Eley, C. G. S. See Robinson, M. N.
——; Moore, G. R.
Proton NMR investigation of the interaction between cytochrome c and cytochrome b_5. 215: 11
Eliot, R. S. See Pieper, G. M.
Ellar, D. J. See Stewart, G. S. A. B.; Todd, J. A.
Ellory, J. C. See Young, J. D.
Elmore, D. T. See Irvine, G. B.; Macartney, H. W.
Emeis, J. See Havekes, L.
Enari, T. M. See Nummi, M.
Endre, Z. H.
——; Chapman, B. E.; Kuchel, P. W.
Intraerythrocyte microviscosity and diffusion of specifically labeled [glycyl-α-^{13}C]glutathione by using carbon-13 NMR. 216: 655
Ene, D. See Clamp, J. R.
Engel, J. See Furthmayr, H.
Engel, P. C. See Williamson, G.
England, P. J. See McCormack, J. G.
England, R. R.
——; Evans, E. H.
A requirement for calcium in the extraction of oxygen-evolving photosystem 2 preparations

from the cyanobacterium Anacystis nidulans. 210: 473
Engstroem, W.
——; Zetterberg, A.
Phosphate and the regulation of DNA replication in normal and virus-transformed 3T3 cells. 214: 695
Enns, C. A. See Behrens, C. M.
Entman, M. L. See Tate, C. A.
Eriksson, C. J. P.
——; Widenius, T. V.; Ylikahri, R. H.; Harkonen, M.; Leinonen, P.
Inhibition of testosterone biosynthesis by ethanol. Relation to hepatic and testicular acetaldehyde, ketone bodies, and cytosolic redox state in rats. 210: 29
Erwin, B. G. See Della Ragione, F.
Escriva, F. See Ferre, P.
Esnouf, M. P. See Burgess, A. I.
Espinal, J.
——; Dohm, G. L.; Newsholme, E. A.
Sensitivity to insulin of glycolysis and glycogen synthesis of isolated soleus-muscle strips from sedentary, exercised and exercise-trained rats. 212: 453
Esterbauer, H. See Cadenas, E.
Evans, C. H.
——; Drouven, B. J.
The promotion of collagen polymerization by lanthanide and calcium ions. 213: 751
Evans, E. H. See England, R. R.
Evans, M. J. See Childs, R. A.
Evans, P. J.
——; Mayer, R. J.
Degradation of transplanted mitochondrial proteins by hepatocyte monolayers. 216: 151
Evans, W. H. See Whetton, A. D.
Exton, J. H. See Hughes, B. P.

Fafournoux, P.
——; Demigne, C.; Remesy, C.; Le Cam, A.
Bidirectional transport of glutamine across the cell membrane in rat liver. 216: 401
——; Remesy, C.; Demigne, C.
Control of alanine metabolism in rat liver by transport processes or cellular metabolism. 210: 645
Fahim, R. E. F.
——; Forstner, G. G.; Forstner, J. F.
Heterogeneity of rat goblet-cell mucin before and after reduction. 209: 117
Fahl, W. E.
——; Lalwani, N. D.; Reddy, M. K.; Reddy, J. K.
Induction of peroxisomal enzymes in livers of neonatal rats exposed to lactating mothers treated with hypolipidemic drugs. Role of drug metabolite transfer in milk. 210: 875
Falasca, A. See Barbieri, L.; Stirpe, F.
Fanelli, C. See Orlando, A. R.
Farmer, K. J. See Allen, R. G.
Farmer, P. B. See White, I. N. H.
Farrell, R. See Brosnan, M. E.
Farres, J. See Julia, P.
Faulkner, A. See Robertson, J. P.
Feeney, J. See Cox, D. W. G.; Thomas, R. M.
Fehlmann, M. See Gazzano, H.; Kahn, C. R.
——; Crettaz, M.; Kahn, C. R.
Glucagon resistance of hepatoma cells. Evidence for receptor and postreceptor defects. 214: 845
Feige, U. See Imort, M.
Feizi, T. See Childs, R. A.; Scudder, P.
Felber, S. M.
——; Brand, M. D.
Early plasma-membrane-potential changes during stimulation of lymphocytes by concanavalin A. 210: 885
Concanavalin A causes an increase in sodium permeability and intracellular sodium content of pig lymphocytes. 210: 893
Feliu, J. E.
——; Marco, J.
Stimulatory effect of the intestinal peptide PHI on glycogenolysis and gluconeogenesis in isolated rat hepatocytes. 214: 999
Ferguson, M. A. J.
——; Allen, A. K.; Snary, D.
Studies on the structure of a phosphoglycoprotein from the parasitic protozoan Trypanosoma cruzi. 213: 313
Fern, M. See Garlick, P. J.
Fernandez, E.
——; Valcarce, C.; Cuezva, J. M.; Medina, J. M.
Postnatal hypoglycemia and gluconeogenesis in the newborn rat. Delayed onset of gluconeogenesis in prematurely delivered newborns. 214: 525
Fernandez, H. N.
——; Delfino, J. M.
Covalent crosslinking of the bovine somatotropin dimer. Effects on growth-promoting, receptor-binding, and immunological activities and preliminary characterization of the self-association. 209: 107
Ferre, P.
——; Satabin, P.; Decaux, J. F.; Escriva, F.; Girard, J.
Development and regulation of ketogenesis in hepatocytes isolated from newborn rats. 214: 937
Ferreira, C.
——; Terra, W. R.
Physical and kinetic properties of a plasma-membrane-bound β-D-glucosidase (cellobiase) from midgut cells of an insect (Rhynchosciara americana larva). 213: 43
Ferri, A. See Grazi, E.
Ferwerda, W. See Van Rinsum, J.
——; Blok, C. M.; Van Rinsum, J.
Synthesis of N-acetylneuraminic acid and of CMP-N-acetylneuraminic acid in the rat liver cell. 216: 87
Fewson, C. A. See Hills, C. A.
Fey, E. G. See Adams, A.
Fido, R. J. See Gutteridge, S.
Fiedler, F.
——; Lemon, M. J. C.; Hirschauer, C.; Leysath, G.; Lottspeich, F.; Henschen, A.; Gau, W.; Bhoola, K. D.
Purification and properties of guinea pig submandibular gland kallikrein. 209: 125
Fielden, E. M. See O'Neill, P.
Fietzek, P. P. See Glanville, R. W.
Filka, K. See Guran, A.
Fimmel, A. L. See Cox, G. B.; Jans, D. A.
——; Jans, D. A.; Langman, L.; James, L. B.; Ash, G. R.; Downie, J. A.; Senior, A. E.; Gibson, F.; Cox, G. B.
The F_1F_0-ATPase of Escherichia coli. Substitution of proline by leucine at position 64 in the c-subunit causes loss of oxidative phosphorylation. 213: 451
Finazzi-Agro, A. See O'Neill, P.
Fincham, A. G.
——; Belcourt, A. B.; Termine, J. D.; Butler, W. T.; Cothran, W. C.
Amelogenins. Sequence homologies in enamel-matrix proteins from three mammalian species 211: 149
Fincham, N.
——; Camp, R.
Novel prostaglandin dehydrogenase in rat skin. 212: 129
Findlay, D. M. See Moseley, J. M.
Findlay, J. B. C. See Brett, M.
Finley, E. See Vernon, R. G.
Fischer, T. H.
The effect of sodium and potassium on the thermal denaturation of sodium-potassium ATPase. 211: 771
Fitzsimons, J. T. R. See Holt, S.
Flamigni, F. See Guarnieri, C.
Fletcher, A. P. See Alkjaersig, N.
Flint, D. J. See Walker, A. P.

Flynn, T. G. See Cromlish, J. A.
Folke, M. See Kristensen, L. O.
Foot, M.
——; Cruz, T. F.; Clandinin, M. T.
Effect of dietary lipid on synaptosomal acetylcholinesterase activity. 211: 507
——; Jeffcoat, R.; Russell, N. J.
Some properties, including the substrate in vivo, of the Δ^9-desaturase in Micrococcus cryophilus. 209: 345
Foote, N.
——; Thompson, A. C.; Barber, D.; Greenwood, C.
Pseudomonas cytochrome c-551 peroxidase. A purification procedure and study of carbon monoxide-binding kinetics. 209: 701
Ford, P. M. See Forsdyke, D. R.
Foreman, J. W.
——; Reynolds, R. A.; Ginkinger, K.; Segal, S.
Effect of acidosis on glutamine transport by isolated rat renal brush-border and basolateral-membrane vesicles. 212: 713
Forest, C. See Grimaldi, P.
Forsdyke, D. R.
——; Ford, P. M.
Segregation into separate rouleaux of erythrocytes from different species. Evidence against the agglomerin hypothesis of rouleaux formation. 214: 257
Forstner, G. G. See Fahim, R. E. F.
Forstner, J. F. See Fahim, R. E. F.
Foster, D. W. See McGarry, J. D.; Mills, S. E.
Fothergill, J. E. See Carter, P. E.
Fothergill, L. A. See Perkins, R. E.
Fowler, C. J. See Tipton, K. F.
Fox, K. R.
——; Cornish, A.; Williams, R. C.; Waring, M. J.
The use of radiolabeled triostin antibiotics to measure low levels of binding to deoxyribonucleic acids. 211: 543
Foyer, C. See Horton, P.
Franceschi, C. See Barbieri, L.
Francis, G. L. See Ballard, F. J.
Francis, J. E. See Smith, A. G.
Fransson, L. A. See Coester, L.
Franze-Fernandez, M. T. See Haim, L.
Fraser, D. R. See Trayhurn, P.
——; Trayhurn, P.
Mitochondrial calcium transport in lean and genetically obese (ob/ob) mice. 214: 163
Freedman, R. B. See Lambert, N.; Mills, E. N. C.
Frey, J.
——; Afting, E. G.
Isolation and renaturation of α_2-macroglobulin receptor from diploid human fibroblasts. 214: 629
Friedberg, T.
——; Milbert, U.; Bentley, P.; Guenther, T. M.; Oesch, F.
Purification and characterization of a new cytosolic glutathione S-transferase (glutathione S-transferase X) from rat liver. 215: 617
Fritz, R. B. See Schatzman, R. C.
Fu, P. P. See Cerniglia, C. E.
Fujimoto, Y.
——; Tanioka, H.; Keshi, I.; Fujita, T.
The interaction between lipid peroxidation and prostaglandin synthesis in rabbit kidney-medulla slices. 212: 167
Fujita, T. See Fujimoto, Y.
Fukuda, M. N. See Scudder, P.
Fukui, T. See De Clercq, E.
Fulcher, I. S. See Kenny, A. J.
——; Chaplin, M. F.; Kenny, A. J.
Endopeptidase-24.11 purified from pig intestine is differently glycosylated from that in kidney. 215: 317
——; Kenny, A. J.
Proteins of the kidney microvillar membrane. The amphipathic forms of endopeptidase purified from pig kidneys. 211: 743
Fuller, J. Q. See Leadlay, P. F.
——; Leadlay, P. F.
Proton transfer in methylmalonyl-CoA epimerase from Propionibacterium shermanii. The reaction of (2R)-methylmalonyl-CoA in tritiated water. 213: 643
Fulton, D. V. See Dawson, A. P.
Furthmayr, H.
——; Wiedemann, H.; Timpl, R.; Odermatt, E.; Engel, J.
Electron-microscopical approach to a structural model of intima collagen. 211: 303

Gadsby, P. M. A. See Hill, B. C.
Gagnon, J. See Christie, D. L.; Parkes, C.
——; Christie, D. L.
Amino acid sequence of the Bb fragment from human complement Factor B. Alignment of the cyanogen bromide-cleavage peptides. 209: 51
Gahl, W. A.
——; Tietze, F.; Bashan, N.; Bernardini, I.; Raiford, D.; Schulman, J. D.
Characteristics of cystine counter-transport in normal and cystinotic lysosome-rich leukocyte granular fractions. 216: 393
Gain, K. R. See Grigor, M. R.
Galla, H. J. See Xu, Y. H.

Gallagher, J. T.
——; Gasiunas, N.; Schor, S. L.
Specific association of iduronic acid-rich dermatan sulfate with the extracellular matrix of human skin fibroblasts cultured on collagen gels. 215: 107
Galloway, W. A. See Cawston, T. E.
——; Murphy, G.; Sandy, J. D.; Gavrilovic, J.; Cawston, T. E.; Reynolds, J. J.
Purification and characterization of a rabbit bone metalloproteinase that degrades proteoglycan and other connective-tissue components. 209: 741
Galpin, K. S.
——; Henderson, R. G.; James, W. P. T.; Trayhurn, P.
GDP binding to brown-adipose-tissue mitochondria of mice treated chronically with corticosterone. 214: 265
Gambacorta, A. See Londei, P.
Gandhi, C. R.
——; Keenan, R. W.
Calmodulin-dependent enzymic phosphorylation of dolichol in Tetrahymena pyriformis. 216: 317
Garcia, R. See Cross, A. R.
Garcia, R. C. See Segal, A. W.
Garcia-Barreno, P. See Casals, C.
Garcia-Morales, P. See Sener, A.
Garcia-Sainz, J. A. See Corvera, S.
Gardiner, S. E.
——; Roughan, P. G.
Relationship between fatty-acyl composition of diacylgalactosylglycerol and turnover of chlorplast phosphatidate. 210: 949
Garel, J. M. See Ricquier, D.
Garland, J. See Bazill, G. W.
Garland, P. B. See Speirs, A.
Garlick, P. J. See Goldspink, D. F.; Preedy, V. R.
——; Fern, M.; Preedy, V. R.
The effect of insulin infusion and food intake on muscle protein synthesis in postabsorptive rats. 210: 669
Garner, C. See Gibson, G. J.
Garner, C. D. See Blackburn, N. J.
Garnier-Suillerot, A. See Muscci, G.
Gascoyne, N. See Beesley, T.
Gasiunas, N. See Gallagher, J. T.
Gasperi-Campani, A. See Stirpe, F.
Gatehouse, J. A.
——; Lycett, G. W.; Delauney, A. J.; Croy, R. R. D.; Boulter, D.
Sequence specificity of the post-translational proteolytic cleavage of vicilin, a seed storage

protein of pea (Pisum sativum L.). 212: 427
Gau, W. See Fiedler, F.
Gavigan, S. J. P.
——; Knight, B. L.
The effects of low-density lipoprotein and cholesterol on acyl-coenzyme A:cholesterol acyltransferase activity in membranes from cultured human fibroblasts. 216: 93
Gavrilovic, J. See Galloway, W. A.
Gay, R. J.
——; Amos, H.
Purines as hyperrepressors of glucose transport. A role for phosphoribosyl diphosphate. 214: 133
Gazzano, H.
——; Kowalski, A.; Fehlmann, M.; Van Obberghen, E.
Two different protein kinase activities are associated with the insulin receptor. 216: 575
Geddes, R.
——; Otter, D. E.; Scott, G. K.; Taylor, J. A.
Disturbance of lysosomal glycogen metabolism by liposomal anti-α-glucosidase and some antiinflammatory drugs. 212: 99
Gee, N. S. See Relton, J. M.
——; Matsas, R.; Kenny, A. J.
A monoclonal antibody to kidney endopeptidase-24.11. Its application in immunoadsorbent purification of the enzyme and immunofluorescent microscopy of kidney and intestine. 214: 377
Geheb, M.
——; Alvis, R.; Hercker, E.; Cox, M.
Mineralocorticoid-specificity of aldosterone-induced protein synthesis in giant-toad (Bufo marinus) urinary bladders. 214: 29
Genov, N.
——; Shopova, M.; Boteva, R.; Ricchelli, F.; Jori, G.
Intramolecular distances between tryptophan residues and the active-site serine residue in alkaline bacterial proteinases as measured by fluorescence energy-transfer studies. 215: 413
Gens, A. See Meisel, P.
George, G. N. See Bray, R. C.
George, S. T.
——; Balasubramanian, A. S.
The N$^{\alpha}$-acetylenkephalin carboxypeptidase activity of N-acetyltyrosine deacetylase from monkey kidney. Purification, characterization, and substrate specificity. 209: 471
Gershengorn, M. C. See Rebechi, M. J.
Gershman, H. See Kluve, B.
Gevers, G. See Bollen, M.
Gewert, D. R.
——; Moore, G.; Clemens, M. J.
Inhibition of cell division by interferon. The relationship between changes in utilization of thymidine for DNA synthesis and control of proliferation in Daudi cells. 214: 983
Ghidoni, R.
——; Sonnino, S.; Chigorno, V.; Venerando, B.; Tettamanti, G.
Differences in liver ganglioside patterns in various inbred strains of mice. 209: 885
Occurrence of glycosylation and deglycosylation of exogenously administered ganglioside G_{M1} in mouse liver. 213: 321
Ghosh, S. K.
——; Mukhopadhyay, N. K.; Majumder, S.; Bose, S. K.
Fractionation of the mycobacillin-synthesizing enzyme system. 215: 539
Gibbons, G. F. See Pullinger, C. R.
——; Pullinger, C. R.; Munday, M. R.; Williamson, D. H.
Regulation of cholesterol synthesis in the liver and mammary gland of the lactating rat. 212: 843
Gibbs, A. H. See De Matteis, F.
Gibbs, P. N. B. See Jordan, P. M.
Gibson, F. See Cox, G. B.; Fimmel, A. L.; Jans, D. A.; Senior, A. E.
Gibson, G. J.
——; Kielty, C. M.; Garner, C.; Schor, S. L.; Grant, M. E.
Identification and partial characterization of three low-molecular-weight collagenous polypeptides synthesized by chondrocytes cultured within collagen gels in the absence and in the presence of fibronectin. 211: 417
Gietzen, K. See Xu, Y. H.
Comparison of the calmodulin antagonists compound 48/80 and calmidazolium. 216: 611
Giffhorn, S. See Katz, N. R.
Gillon, K. R. W.
——; Hawthorne, J. N.
Transport of myo-inositol into endoneurial preparations of sciatic nerve from normal and streptozotocin-diabetic rats. 210: 775
Ginkinger, K. See Foreman, J. W.; Medow, M. S.
Girard, J. See Ferre, P.; Pegorier, J. P.
Girard, L. R. See Hobkirk, R.
Gitomer, W. L.
——; Tipton, K. F.
Determination of K_m and V of an enzyme for an unstable substrate and its application to the oxidation of N$^{\tau}$-methylimidazol-3-ylacetaldehyde by aldehyde dehydrogenase. 211: 277
Giudicelli, Y. See Bauche, F.
Glanville, R. W. See Kirsch, E.; Scott, J. E.
——; Breitkreutz, D.; Meitinger, M.; Fietzek, P. P.
Completion of the amino acid sequence of the α1 chain from type I calf skin collagen. Amino acid sequence of α1(I)B8. 215: 183
Glass, C. K. See Pittman, R. C.
Glass, D. B.
Differential responses of cyclic GMP-dependent and cyclic AMP-dependent protein kinases to synthetic peptide inhibitors. 213: 159
Glatz, J. F. C. See Kempen, H. J. M.
Gloessl, J.
——; Schubert Prinz, R.; Gregory, J. D.; Damle, S. P.; Von Figura, K.; Kresse, H.
Receptor-mediated endocytosis of proteoglycans by human fibroblasts involves recognition of the protein core. 215: 295
Godfrey, P. P. See Barnwell, S. G.
Gogstad, G.
——; Hetland, O.; Solum, N. O.; Prydz, H.
Monocytes and platelets share the glycoproteins IIb and IIIa that are absent from both cells in Glanzmann's thrombasthenia type I. 214: 331
Goh, E. H.
Transfer of exogenous cholesterol to microsomes of hepatocytes investigated with [^{3}H]desmosterol tracer. 216: 137
Golden, S. See Katz, J.
Goldspink, D. F.
——; Garlick, P. J.; McNurlan, M. A.
Protein turnover measured in vivo and in vitro in muscles undergoing compensatory growth and subsequent denervation atrophy. 210: 89
Goldstein, L. See King, P. A.
——; Perlman, D. F.; McLaughlin, P. M.; King, P. A.; Cha, C. J.
Muscle glutamine production in diabetic ketoacidotic rats. 214: 757
Goldstone, T. P.
——; Duddridge, R. J.; Crompton, M.
The activation of sodium-dependent efflux of calcium from liver mitochondria by glucagon and β-adrenergic agonists. 210: 463
Gollan, J. L. See Vessey, D. A.
Golly, I. See Hlavica, P.
Gomez, F. See Closset, J.

Gomez-Fernandez, J. C. See Belda, F. J. F.
Gomperts, B. D.
——; Baldwin, J. M.; Micklem, K. J.
Rat mast cells permeabilized with Sendai virus secrete histamine in response to calcium buffered in the micromolar range. 210: 737
Gonias, S. L.
——; Balber, A. E.; Hubbard, W. J.; Pizzo, S. V.
Ligand binding, conformational change, and plasma elimination of human, mouse, and rat α-macroglobulin proteinase inhibitors. 209: 99
Goodfellow, P. N. See Childs, R. A.
Goodwin, G. H. See Brown, E.
Goodwin, T. W. See Isaac, R. E.
Gordon, J. L. See Cusack, N. J.; Pearson, J. D.
Gordon, L. M. See Whetton, A. D.
Gorgolyuk, S. I. See Neifakh, A. A.
Gormally, J. See Davies, A.
Gorman, J. J. See Moseley, J. M.
Gorter, G. See Akkerman, J. W. N.
Goueli, S. A. See Ahmed, K.
Gough, M. See Clamp, J. R.
Graf, P. See Sies, H.
Grand, R. J. A. See Moir, A. J. G.
——; Perry, S. V.
Preparation of the alkali and P light chains of chicken gizzard myosin. Amino acid sequence of the alkali light chain. 211: 267
Grant, M. E. See Gibson, G. J.
Grazi, E.
——; Ferri, A.; Cino, S.
The polymerization of actin. A study of the nucleation reaction. 213: 727
Green, A.
Glucagon inhibition of insulin-stimulated 2-deoxyglucose uptake by rat adipocytes in the presence of adenosine deaminase. 212: 189
Green, I. C. See Allan, E. H.
Green, J.
——; Haywood, G. W.; Large, P. J.
Serological differences between the multiple amine oxidases of yeasts and comparison of the specificities of the purified enzymes from Candida utilis and Pichia pastoris. 211: 481
Green, S. R. See Pittman, R. C.
Greene, J. M. See Conneely, O. M.
Greenwood, C. See Foote, N.; Hill, B. C.
——; Hill, B. C.; Barber, D.; Eglinton, D. G.; Thomson, A. J.
The optical properties of Cu_A in bovine cytochrome c oxidase determined by low-temperature magnetic-circular-dichroism spectroscopy. 215: 303
Greenwood, J. See Lyon, M.
Grego, B. See Turner, C.
Gregory, J. D. See Gloessl, J.
Gregory, R. B. See Ainsworth, S.
——; Ainsworth, S.; Kinderlerer, J.
The regulatory properties of rabbit muscle pyruvate kinase. The influence of effector concentrations. 209: 413
Grier, T. J.
——; Rasmussen, J. R.
Metabolism of 3-deoxy-3-fluoro-D-mannose and 4-deoxy-4-fluoro-D-mannose by Saccharomyces cerevisiae S288C. 209: 677
Griffiths, J. R. See Lutaya, G.
Grigor, M. R.
——; Gain, K. R.
The effect of starvation and refeeding on lipogenic enzymes in mammary glands and livers of lactating rats. 216: 515
Grimaldi, P.
——; Forest, C.; Poli, P.; Negrel, R.; Ailhaud, G.
Modulation of lipid-synthesizing enzymes by insulin in differentiated ob 17 adipose-like cells. 214: 443
Grimber, G. See Coude, F. X.
Grimble, G. K. See Bates, P. C.
Grinde, B.
Role of calcium for protein turnover in isolated rat hepatocytes. 216: 529
Griswold, M. D. See Skinner, M. K.
Groot, P. H. E. See Van Berkel, T. J. C.
Grote, H.
——; Voigt, J.; Sekeris, C. E.
No correlation between binding of glucocorticosteroids to specific cytoplasmic proteins in vivo and enzyme induction in the rat liver. 212: 305
Gruber, M. See Bijsterbosch, M. K.
Gruen, L. C.
——; Woods, E. F.
Structural studies on the microfibrillar proteins of wool. Interaction between α-helical segments and reassembly of a four-chain structure. 209: 587
Grundstroem, T. See Beesley, T.
Grunnet, I.
——; Knudsen, J.
Medium-chain fatty acid synthesis by goat mammary-gland fatty acid synthetase. The effect of limited proteolysis. 209: 215
Grunnet, N. See Dich, J.
Guarnieri, C.
——; Flamigni, F.; Muscari, C.; Caldarera, C. M.
Involvement of calcium ions in the activation of ornithine decarboxylase by isoprenaline evaluated in situ in the perfused rat heart. 212: 241
Guenther, T. M. See Friedberg, T.
Guerrieri, F. See Papa, S.
Guichard, C. See Bazin, R.
Guild, S.
——; Drummond, A. H.
Adenosine 3',5'-cyclic monophosphate-dependent release of prolactin from GH_3 pituitary tumor cells. A quantitative analysis. 216: 551
Guinea, M. L.
——; Tamiya, N.; Cogger, H. G.
The neurotoxins of the sea snake Laticauda schistorhynchus. 213: 39
Gunn, J. M.
——; Bodner, J. B.; Knowles, S. E.; Ballard, F. J.
Inhibition of protein breakdown by epidermal growth factor in IMR90 human fibroblasts and other mammalian cell lines. 210: 251
Guran, A.
——; Ticha, M.; Filka, K.; Kocourek, J.
Studies on lectins. Part 56. Isolation and properties of a lectin from the seeds of the Indian bean or lablab (Dolichos lablab L.). 209: 653
Gurnett, L. P. See Allen, G.
Gurr, M. I. See Blakeborough, P.
Gusev, N. B.
——; Barskaya, N. V.; Verin, A. D.; Duzhenkova, I. V.; Khuchua, Z. A.; Zheltova, A. O.
Some properties of cardiac troponin T structure. 213: 123
Guth, J. H.
——; Burris, R. H.
The role of magnesium and manganese in the enzyme-catalyzed activation of nitrogenase iron protein from Rhodospirillum rubrum. 213: 741
Gutteridge, J. M. C.
——; Halliwell, B.; Treffry, A.; Harrison, P. M.; Blake, D.
Effect of ferritin-containing fractions with different iron loading on lipid peroxidation. 209: 557
Gutteridge, S. See Bray, R. C.
——; Bray, R. C.; Notton, B. A.; Fido, R. J.; Hewitt, E. J.
Studies by electron paramagnetic resonance spectroscopy of the molybdenum center of spinach (Spinacia oleracea) nitrate reductase. 213: 137

Habison, A.
——; Kubicek, C. P.; Roehr, M.
Partial purification and regula-

tory properties of phosphofruc= tokinase from Aspergillus ni= ger. 209: 669
Haering, H. U. See Kirsch, D. M.
Haim, L.
——; Iapalucci-Espinoza, S.; Conde, R.; Franze-Fernandez, M. T.
Control of activation of liver RNA polymerase I occurring after refeeding of protein-de= pleted mice. 210: 837
Halban, P. A. See Praz, G. A.
——; Praz, G. A.; Wollheim, C. B.
Abnormal glucose metabolism accompanies failure of glucose to stimulate insulin release from a rat pancreatic cell line (RINm5F). 212: 439
Halenda, S. P. See Putney, J. W. Jr.
Hales, C. N. See Maguire, G. A.
Halestrap, A. P. See Quinlan, P. T.
——; Quinlan, P. T.
The intramitochondrial volume measured using sucrose as an extramitochondrial marker overestimates the true matrix volume determined with man= nitol. 214: 387
Halford, S. E.
——; Johnson, N. P.
Single turnovers of the EcoRI restriction endonuclease. 211: 405
Hall, D. O. See Adzamli, I. K.; Lalla-Maharajh, W. V.
Hallett, A. See McIntyre, G. D.
Hallett, M. B.
——; Campbell, A. K.
Two distinct mechanisms for stimulation of oxygen-radical production by polymorphonu= clear leukocytes. 216: 459
Halliwell, B. See Gutteridge, J. M. C.; Law, M. Y.
Hamada, S. See Yoshimasa, Y.
Hames, B. D. See Delaney, S. J.; Wilkinson, D. G.
Hamlyn, J. M.
——; Senior, A. E.
Evidence that magnesium- or calcium-activated adenosine triphosphatase in rat pancreas is a plasma-membrane ectoen= zyme. 214: 59
Hamman, H. C. See Jensen, C. B.
Hammond, J. R. See Jarvis, S. M.
Hanley, M. R. See Downes, C. P.
Hansford, R. G. See Ashour, B.
Hanson, P. J. See Anderson, N. G.
Haran, R. See Laussac, J. P.
Harding, S. E.
——; Rowe, A. J.; Creeth, J. M.
Further evidence for a flexible and highly expanded spheroi= dal model for mucus glycopro= teins in solution. 209: 893
Hardingham, T. See Ratcliff, A.
Hardwick, J. P.
——; Schwalm, F.; Richardson, A.
The effect of phenobarbital on the transcriptional activity of liver. 210: 599
Hardy, M. F. See Mantle, D.
Harkonen, M. See Eriksson, C. J. P.
Harmon, C. S.
——; Phizackerley, P. J. R.
The effects of starvation and refeeding on glycogen metabol= ism in mouse tail skin. 212: 679
Harpe, K. G. See Ades, I. Z.
Harper, A. M. See Segal, A. W.
Harris, D. E. See Boswell, A. P.
Harris, E. D. Jr. See Nagase, H.
Harris, M. R.
——; Smith, B. J.
A qualitative and quantitative study of subfractions of the histone $H1^0$ in various mam= malian tissues. 211: 763
Harris, R. A. See Stephens, T. W.
Harrison, L. C. See Plehwe, W. E.
Harrison, P. M. See Gutteridge, J. M. C.
Hart, G. J.
——; Dickinson, F. M.
The coenzyme-binding charac= teristics of highly purified preparations of sheep liver cytoplasmic aldehyde dehyd= rogenase. 211: 363
Hartmann, H. J. See Morpurgo, L.
Hartmann, L. See Cahour, A.
Harvey, S. A. K.
——; Booth, R. F. G.; Clark, J. B.
The effect of calcium and hydro= gen concentration on the func= tional recovery of rat brain synaptosomes from anoxic insult in vitro. 212: 289
Harvey, W. See Winston, G. W.
Harwood, J. L. See Price-Jones, M. J.
Hasilik, A. See Imort, M.; Zuehlsdorf, M.
——; Pohlmann, R.; Von Figura, K.
Inhibition by cyanate of the processing of lysosomal en= zymes. 210: 795
Hasnain, S. S. See Blackburn, N. J.
Hassall, D. G.
——; Owen, J. S.; Bruckdorfer, K. R.
The aggregation of isolated human platelets in the pres= ence of lipoproteins and pros= tacyclin. 216: 43
Hassinen, I. E. See Peuhkurinen, K. J.
Havekes, L.
——; Van Hinsbergh, V.; Kempen, H. J.; Emeis, J.
The metabolism in vitro of hu= man low-density lipoprotein by the human hepatoma cell line Hep G2. 214: 951
Hawkes, G. E. See Nicholson, J. K.
Hawkes, T. R. See Smith, B. E.
——; Lowe, D. J.; Smith, B. E.
Nitrogenase from Klebsiella pneumoniae. An EPR signal observed during enzyme turn= over under ethylene is associat= ed with the iron-molybdenum cofactor. 211: 495
——; Smith, B. E.
Purification and characterization of the inactive molybdenum-= iron protein (NifB-Kp1) of the nitrogenase from nifB mutants of Klebsiella pneumoniae. 209: 43
Hawkins, P. T. See Creba, J. A.
——; Michell, R. H.; Kirk, C. J.
A simple assay method for det= ermination of the specific radioactivity of the γ-phosp= hate group of phosphorus-32-= labeled ATP. 210: 717
Hawthorne, J. N. See Gillon, K. R. W.
Hayer, M. K. See Brophy, P. J.
Hayes, J. D.
Rat liver glutathione S-transfer= ases. A study of the structure of the basic YbYb-containing enzymes. 213: 625
——; Chalmers, J.
Bile acid inhibition of basic and neutral glutathione S-transfer= ases in rat liver. 215: 581
Hayes, M. R.
——; McGivan, J. D.
Comparison of the effects of certain thiol reagents on ala= nine transport in plasma mem= brane vesicles from rat liver and their use in identifying the alanine carrier. 214: 489
Haynes, M. See Bazill, G. W.
Haynes, R. C. Jr. See Jensen, C. B.
Haywood, G. W. See Green, J.
Hazelton, G. A.
——; Lang, C. A.
Glutathione S-transferase activi= ties in the yellow-fever mos= quito [Aedes aegypti (Louis= ville)] during growth and ag= ing. 210: 281
Glutathione biosynthesis in the aging adult yellow-fever mos= quito [Aedes aegypti (Louis= ville)]. 210: 289
Hazleman, B. L. See Cawston, T. E.
Head, J. F. See Birnbaum, R. J.
——; Spielberg, S.; Kaminer, B.
Two low-molecular-weight calci= um-binding proteins isolated from squid optic lobe by phe= nothiazine-Sepharose affinity chromatography. 209: 797
Head, L. P. See Morris, G. E.

Headon, D. R. See Conneely, O. M.
Hearn, M. T. W. See Turner, C.
Heath, R. See Phillips, I. R.
Heffelfinger, S. C.
——; Sewell, E. T.; Danner, D. J.
Antibodies to bovine liver branched-chain 2-oxo acid dehydrogenase cross-react with this enzyme complex from other tissues and species. 213: 339
Heickendorff, L.
——; Ledet, T.
Arterial basement-membrane-like material isolated and characterized from rabbit aortic myomedial cells in culture. 211: 397
The carbohydrate components of arterial basement-membrane-like material. Studies on rabbit aortic myomedial cells in culture. 211: 735
Heinegaard, D. See Paulsson, M.
Heinegard, D. See Sommarin, Y.
Hellerstroem, C. See Malaisse, W. J.; Sener, A.
Hellman, B. See Rorsman, P.
Helmerhorst, E. See Jones, A. J.
Hemington, N. L. See Dawson, R. M. C.
Hemker, . H. C. See De Metz, M.
Hems, R. See Vina, J.
Henderson, P. J. F. See Horne, P.
Henderson, R. G. See Galpin, K. S.
Henkel, W. See Scott, J. E.
Hennen, G. See Closset, J.
Henquin, J. C. See Charles, S.
Henry, R. J.
——; Schibeci, A.; Stone, B. A.
Localization of β-glucan synthases on the membranes of cultured Lolium multiflorum (ryegrass) endosperm cells. 209: 627
Henschen, A. See Fiedler, F.
Heptinstall, J. See Parry, J. B.
Herbst, H. See Chang, J. Y.
Herchuelz, A. See Sener, A.
Hercker, E. See Geheb, M.
Herrera, E. See Lasuncion, M. A.
Hers, H. G. See Bartrons, R.; Devos, P.
Herscovics, A. See Sasak, W.
Hertel, C.
——; Affolter, H.; Marme, D.; Dierks-Ventling, C.
Effects of amiprophosmethyl on massive and limited calcium loading of maize mitochondria 212: 567
——; Mueller, P.; Portenier, M.; Staehelin, M.
Determination of the desensitization of β-adrenergic receptors by [^{3}H]CGP-12177. 216: 669
Hesketh, T. R. See Moore, J. P.
——; Bavetta, S.; Smith, G. A.; Metcalfe, J. C.
Duration of the calcium signal in the mitogenic stimulation of thymocytes. 214: 575
——; Pozzan, T.; Smith, G. A.; Metcalfe, J. C.
Limits to the early increase in free cytoplasmic calcium concentration during the mitogenic stimulation of lymphocytes. 212: 685
Heslop, J. P. See Berridge, M. J.
Hess, B. See Boiteux, A.
Hetland, O. See Gogstad, G.
Hewitt, E. J. See Gutteridge, S.
Hey, Y.
——; Dean Peter D. G.
Tandem dye-ligand chromatography and biospecific elution applied to the purification of glucose-6-phosphate dehydrogenase from Leuconostoc mesenteroides. 209: 363
Heyworth, C. M.
——; Houslay, M. D.
Challenge of hepatocytes by glucagon triggers a rapid modulation of adenylate cyclase activity in isolated membranes 214: 93
Insulin exerts actions through a distinct species of guanine nucleotide regulatory protein: inhibition of adenylate cyclase 214: 547
——; Wallace, A. V.; Houslay, M. D.
Insulin and glucagon regulate the activation of two distinct membrane-bound cyclic AMP phosphodiesterases in hepatocytes. 214: 99
Hider, R. C. See Tatham, A. S.
Hildebrand, B. See Dahlbaeck, B.
Hill, B. C. See Greenwood, C.
——; Brittain, T.; Eglinton, D. G.; Gadsby, P. M. A.; Greenwood, C.; Nicholls, P.; Peterson, J.; Thomson, A. J.; Woon, T. C.
Low-spin ferric forms of cytochrome a_3 in mixed-ligand and partially reduced cyanide-bound derivatives of cytochrome c oxidase. 215: 57
——; Greenwood, C.
Spectroscopic evidence for the participation of compound A ($Fe_{a_3}^{2+}$–O_2) in the reaction of mixed-valence cytochrome c oxidase with oxygen at room temperature. 215: 659
Hill, J. S. See Sawyer, W. H.
Hillaire, D. See Barman, T. E.
Hills, C. A.
——; Fewson, C. A.
Mutant strains of Acinetobacter calcoaceticus possessing additional mandelate dehydrogenases. Identification and preliminary characterization of the enzymes. 209: 379
Hiltunen, J. K. See Peuhkurinen, K. J.
Hincke, M. T. See Molla, A.
Hino, Y. See Sakai, H.
Hinton, R. H. See Mullock, B. M.
Hirasawa, K. See Dawson, R. M. C.
Hirrell, P. H. See Strange, R. C.
Hirschauer, C. See Fiedler, F.
Hitchens, G. D.
——; Kell, D. B.
Uncouplers can shuttle between localized energy-coupling sites during photophosphorylation by chromatophores of Rhodopseudomonas capsulata N22. 212: 25
Hlavica, P.
——; Golly, I.; Mietaschk, J.
Comparative studies on the cumene hydroperoxide- and NADPH-supported N-oxidation of 4-chloroaniline by cytochrome P-450. 212: 539
Hobish, M. K. See Connolly, D. T.
Hobkirk, R.
——; Cardy, C. A.; Saidi, F.; Kennedy, T. G.; Girard, L. R.
Development and characteristics of an estrogen sulfotransferase in placenta and uterus of the pregnant mouse. Comparison between mouse and rat. 216: 451
Hockin, L. J.
——; Paine, A. J.
The role of 5-aminolevulinate synthase, heme oxygenase and ligand formation in the mechanism of maintenance of cytochrome P-450 concentration in hepatocyte culture. 210: 855
Hodgson, J. A. See Lowe, P. N.
——; Lowe, P. N.; Perham, R. N.
Wild-type and mutant forms of the pyruvate dehydrogenase multienzyme complex from Bacillus subtilis. 211: 463
Hoflack, B. See Cecchelli, R.
Holder, A. A.
Carbohydrate is linked through ethanolamine to the C-terminal amino acid of Trypanosoma brucei variant surface glycoprotein. 209: 261
Hollands, C. See De Matteis, F.
Holmgren, A. See Mannervik, B.
Holmquist, C. A. See Newby, A. C.
Holmsen, H. See Akkerman, J. W. N.
Holt, D. E. See Nicholson, J. K.
Holt, S.
——; York, D. A.; Fitzsimons, J. T. R.
The effects of corticosterone, cold exposure and overfeeding with sucrose on brown adipose tissue of obese Zucker rats (fa/fa). 214: 215

Holtta, E.
——; Pohjanpelto, P.
Polyamine starvation causes accumulation of cadaverine and its derivatives in a polyamine-dependent strain of Chinese-hamster ovary cells. 210: 945
Honeyman, T. W. See Schimmel, R. J.
——; Strohsnitter, W.; Scheid, C. R.; Schimmel, R. J.
Phosphatidic acid and phosphatidylinositol labeling in adipose tissue. Relationship to the metabolic effects of insulin and insulin-like agents. 212: 489
Hooghwinkel, G. J. M. See Van Rinsum, J.
Hope, A. B. See Carver, K. A.
Hopkinson, D. A. See Strange, R. C.
Hoppel, C. L. See Brady, P. S.
Horbach, G. J. M. J.
——; Yap, S. H.; Van Bezooijen, C. F. A.
Age-related changes in albumin elimination in female WAG/Rij rats. 216: 309
Horne, P.
——; Henderson, P. J. F.
The association of proton movement with galactose transport into subcellular membrane vesicles of Escherichia coli. 210: 699
Hornebeck, W. See Matthews, I. T. W.
Horst, R. L. See Napoli, J. L.
Horton, H. R. See Sliwkowski, M. X.
Horton, P.
——; Foyer, C.
Relationships between protein phosphorylation and electron transport in the reconstituted chloroplast system. 210: 517
Houslay, M. D. See Cercek, B.; Heyworth, C. M.; Whetton, A. D.; Wilson, S. R.
Howlett, G. J. See Sawyer, W. H.
Hoy, T. G. See Edwards, S. W.
Hsiao, J. See Conneely, O. M.
Hsu, T. F. See Chan, T. S.
Hu, C. W. See Chuang, D. T.
Huang, C. H. See Charlton, J. P.
Huang, L. C. See Charlton, J. P.
Huang, Z. X. See Robinson, M. N.
Hubbard, J.
——; Kalimi, M.
Alteration of hepatic glucocorticoid receptor stability and nuclear binding in vitro by citrate. 210: 259
Hubbard, W. J. See Gonias, S. L.
Hubert, J. J.
——; O'Brien, J. S.
Dog and human acid β-D-galactosidases are structurally similar. 213: 473
Huckerby, T. N. See Sanderson, P. N.
Hue, L. See Bartrons, R.; Bollen, M.
——; Van de Werve, G.; Jeanrenaud, B.
Fructose 2,6-bisphosphate in livers of genetically obese rats. 214: 1019
Hughes, B. P.
——; Exton, J. H.
Effect of micromolar concentrations of manganese ions on calcium-ion cycling in rat liver mitochondria. 212: 773
Hughes, R. C.
——; Mills, G.
Analysis by lectin affinity chromatography of N-linked glycans of BHK cells and ricin-resistant mutants. 211: 575
Hughes, R. J.
——; Insel, P. A.
Human platelets are defective in processing of cholera toxin. 212: 669
Huisman, H. G. See Van der Mark, F.
Humes, H. D. See Somermeyer, M. G.
Hunt, L. A.
Glycosidase analysis of large acidic-type glycopeptides from viral and cellular membrane glycoproteins. Evidence for a common oligomannosyl core with branch sugar heterogeneity. 209: 659
Hunter, C. N. See Ward, J. A.
Husain, M.
——; Steenkamp, D. J.
Electron transfer flavoprotein from pig liver mitochondria. A simple purification and reevaluation of some of the molecular properties. 209: 541
Husson, A.
——; Bouazza, M.; Buquet, C.; Vaillant, R.
Hormonal regulation of two urea-cycle enzymes in cultured fetal hepatocytes. 216: 281
Hutson, P. H.
——; Curzon, G.
Monitoring in vivo of transmitter metabolism by electrochemical methods. 211: 1
Hutton, J. C. See Brocklehurst, K. W.
——; Penn, E. J.; Peshavaria, M.
Low-molecular-weight constituents of isolated insulin-secretory granules. Bivalent cations, adenine nucleotides, and inorganic phosphate. 210: 297
——; Peshavaria, M.
Nucleotide and bivalent cation specificity of the insulin-granule proton translocase. 210: 235
——; Peshavaria, M.; Tooke, N. E.
5-Hydroxytryptamine transport in cells and secretory granules from a transplantable rat insulinoma. 210: 803
Hwang, S. F. See Azhar, S.
Hyman, M. R.
——; Wood, P. M.
Methane oxidation by Nitrosomonas europaea. 212: 31

Iapalucci-Espinoza, S. See Haim, L.
Ibata, K.
——; Mizuno, M.; Takigawa, T.; Tanaka, Y.
Long-chain betulaprenol-type polyprenols from the leaves of Ginkgo biloba. 213: 305
Ibbotson, G. E. See Weisbecker, U.
Ichikawa, Y. See Sagara, J.
Idstroem, J. P. See Rennie, M. J.
Ignesti, G. See Buffoni, F.
Illingworth, J. See Newby, A. C.
Imber, M. J.
——; Pizzo, S. V.
Clearance and binding of native and defucosylated lactoferrin. 212: 249
Imort, M. See Zuehlsdorf, M.
——; Zuehlsdorf, M.; Feige, U.; Hasilik, A.; Von Figura, K.
Biosynthesis and transport of lysosomal enzymes in human monocytes and macrophages. Effects of ammonium chloride, zymosan and tunicamycin. 214: 671
Inestrosa, N. C. See Torres, J. C.
Insel, P. A. See Hughes, R. J.
International Union of Biochemistry
Symbolism and terminology in enzyme kinetics. Recommendations 1981. 213: 561
Irvine, G. B.
——; Blumson, N. L.; Elmore, D. T.
The kinetics of hydrolysis of some synthetic substrates containing neutral hydrophilic groups by pig pepsin and chicken liver cathepsin D. 211: 237
Irvine, R. F. See Berridge, M. J.; Dawson, R. M. C.
——; Dawson, R. M. C.
Phosphatidylinositol phosphodiesterase of rat brain: Ca^{2+}-dependency, pH optima and heterogeneity. 215: 431
Isaac, R. E.
——; Milner, N. P.; Rees, H. H.
Identification of ecdysonoic acid and 20-hydroxyecdysonoic acid isolated from developing eggs of Schistocerca gregaria and pupae of Spodoptera littoralis. 213: 261
——; Rose, M. E.; Rees, H. H.; Goodwin, T. W.

Identification of the 22-phosphate esters of ecdysone, 2-deoxyecdysone, 20-hydroxyecdysone and 2-deoxy-20-hydroxyecdysone from newly laid eggs of the desert locust, Schistocerca gregaria. 213: 533
Isobe, K.
——; Itoh, S.; Onishi, S.; Yamakawa, T.; Ogino, T.; Yokoyama, T.
Kinetic study of photochemical and thermal conversion of bilirubin IXα and its photoproducts. 209: 695
Itoh, S. See Isobe, K.
Ittmann, M. M.
——; Cooper, C.
Heterogeneity of very-low-density lipoprotein remnants bound and taken up by liver of starved rat in vivo. 212: 173
Ivancic, N. M. See Curtain, C. C.
Iwata, M.
——; Nakano, E.
Characterization of sea-urchin fibronectin. 215: 205
Izzo, G. See Papa, S.

Jackowski, G.
——; Liew, C. C.
Changes in nonhistone nuclear proteins during postnatal myocardial development. 210: 175
Jackson, A. P.
——; Siddle, K.; Thompson, R. J.
A monoclonal antibody to human brain-type creatine kinase. Increased avidity with mercaptans. 215: 505
Jacob, R. T.
——; Bhat, P. G.; Pattabiraman, T. N.
Isolation and characterization of a specific enterokinase inhibitor from kidney bean (Phaseolus vulgaris). 209: 91
Jacobs, G. See Pegg, A. E.
Jaehrig, K. See Meisel, P.
Jaffe, J. J. See Comley, J. C. W.
Jamal, A.
——; Kellett, G. L.
The effect of starvation on the control of phosphofructokinase activity in the epithelial cells of the rat small intestine. 210: 129
James, L. B. See Fimmel, A. L.; Jans, D. A.
James, W. P. T. See Galpin, K. S.
Jamison, D. See Macartney, H. W.
Janmohamed, S. N. See Jarvis, S. M.
Janne, J. See Kallio, A.
Jans, D. A. See Cox, G. B.; Fimmel, A. L.
——; Fimmel, A. L.; Langman, L.; James, L. B.; Downie, J. A.; Senior, A. E.; Ash, G. R.; Gibson, F.; Cox, G. B.
Mutations in the uncE gene affecting assembly of the c-subunit of the adenosine triphosphatase of Escherichia coli. 211: 717
Janzen, R. G.
——; Tamaoki, T.
Secretion and glycosylation of α-fetoprotein by the mouse yolk sac. 212: 313
Jard, S. See Assimacopoulos-Jeannet, F.
Jarvis, S. M. See Wu, J. S. R.
——; Hammond, J. R.; Paterson, A. R.; Clanachan, A. S.
Nucleoside transport in human erythrocytes. A simple carrier with directional symmetry in fresh cells, but with directional asymmetry in cells from outdated blood. 210: 457
——; Janmohamed, S. N.; Young, J. D.
Kinetics of nitrobenzylthioinosine binding to the human erythrocyte nucleoside transporter. Evidence of a direct interaction with the permeation site. 216: 661
Jaurin, B. See Beesley, T.
Jeanrenaud, B. See Assimacopoulos-Jeannet, F.; Hue, L.; Van de Werve, G.
Jeffcoat, R. See Foot, M.
Jeffrey, P. L. See Rostas, J. A. P.
Jellinck, P. H. See Kimura, S.
Jenner, L. See Roberts, G. P.
Jennings, B. R. See Trimm, H. H.
Jensen, C. B.
——; Sistare, F. D.; Hamman, H. C.; Haynes, R. C. Jr.
Stimulation of mitochondrial functions by glucagon treatment. Evidence that effects are not artifacts of mitochondrial isolation. 210: 819
Jensen, F. See Dich, J.
Jochim, K. See Schneider, K.
Joergensen, M. See Petersen, L. C.
John, R. A. See Jones, E. D.
Johnson, J. D.
——; Wittenauer, L. A.
A fluorescent calmodulin that reports the binding of hydrophobic inhibitory ligands. 211: 473
Johnson, N. P. See Halford, S. E.
Johnstone, R. M. See Pan, B. T.
Jolly, R. D. See Abraham, D.
Jones, A. J.
——; Helmerhorst, E.; Stokes, G. B.
The formation of dehydroalanine residues in alkali-treated insulin and oxidized glutathione. A nuclear-magnetic-resonance study. 211: 499
Jones, C. S.
——; Shankaran, P.; Davidson, D. J.; Poulos, A.; Callahan, J. W.
Studies on the structure of sphingomyelinase. Amino acid composition and heterogeneity on isoelectric focusing. 209: 291
Jones, E. D.
——; Basford, J. M.; John, R. A.
An investigation of the properties of ornithine aminotransferase after inactivation by the 'suicide' inhibitor aminohexynoate and use of the compound as a probe of intracellular protein turnover. 209: 243
Jones, G. D.
——; Jones, M. G.; Wilson, M. T.; Brunori, M.; Colosimo, A.; Sarti, P.
Reactions of cytochrome c oxidase with sodium dithionite. 209: 175
Jones, M. G. See Al-Tai, W. F.; Jones, G. D.
Jones, M. N. See More, J. E.
Jones, O. T. G. See Cross, A. R.; Ward, J. A.
Jones, R. H. See Tatnell, M. A.
Jones, S. M. See Young, J. D.
Jontell, M.
——; Linde, A.
Noncollagenous proteins of predentin from dentinogenically active bovine teeth. 214: 769
Joost, H. G. See Steinfelder, H. J.
Jordan, P. M. See Seehra, J. S.
——; Gibbs, P. N. B.
Mechanism of action of β-oxoacyl-CoA thiolase from rat liver cytosol. Direct evidence for the order of addition of the two acetyl-CoA molecules during the formation of acetoacetyl-CoA. 213: 153
Jordan, T. W. See Cordiner, S. J.
Jori, G. See Genov, N.
Judah, D. J. See Moss, E. J.
Julia, P.
——; Farres, J.; Pares, X.
Purification and partial characterization of a rat retina alcohol dehydrogenase active with ethanol and retinol. 213: 547

Kaegi, J. H. R. See Klauser, S.
Kahn, A. See Meienhofer, M. C.
Kahn, C. R. See Fehlmann, M.
——; Lauris, V.; Fehlmann, M.; Crettaz, M.
Expression of insulin receptors and insulin action in cell hybrids and cybrids. 214: 309
Kainuma, K. See Sasaki, T.
Kalimi, M. See Hubbard, J.
Kallio, A.
——; Janne, J.
Role of diamine oxidase during

the treatment of tumor-bearing mice with combinations of polyamine antimetabolites. 212: 895
Kaminer, B. See Head, J. F.
Kamiya, K.
——; Cruse, W. B. T.; Kennard, O. The arsonomethyl group as an analog of phosphate. An x-ray investigation. 213: 217
Kane, T. A. See Palmer, W. K.
Kanta, J. See Velebny, V.
Kaplan, R. S.
——; Pedersen, P. L. Characterization of phosphate efflux pathways in rat liver mitochondria. 212: 279
Kappas, A. See De Verneuil, H.
Karmali, A.
——; Drake, A. F.; Spencer, N. Purification, properties and assay of D-ribulose 5-phosphate 3-epimerase from human erythrocytes. 211: 617
Kasafirek, E. See Velebny, V.
Kashiwamata, S. See Sato, H.
Kasprzak, A. A.
——; Papas, E. J.; Steenkamp, D. J. Identity of the subunits and the stoicheiometry of prosthetic groups in trimethylamine dehydrogenase and dimethylamine dehydrogenase. 211: 535
Katoh, N.
——; Wise, B. C.; Kuo, J. F. Phosphorylation of cardiac troponin inhibitory subunit (troponin I) and tropomyosin-binding subunit (troponin T) by cardiac phospholipid-sensitive calcium-dependent protein kinase. 209: 189
Katz, J.
——; Wals, P. A.; Golden, S.; Raijman, L. Mitochondrial-reticular cytostructure in liver cells. 214: 795
Katz, N. R.
——; Giffhorn, S. Glucose- and insulin-dependent induction of ATP citrate lyase in primary cultures of rat hepatocytes. 212: 65
Katz, S. See Molla, A.
Kawaguchi, K. See Connolly, D. T.
Kawamura, I. See Moldawer, L. L.
Kawamura, M. See Kondo, M.
Kealey, T. The metabolism and hormonal responses of human eccrine sweat glands isolated by collagenase digestion. 212: 143
Keenan, R. W. See Gandhi, C. R.
Keleti, T. Errors in the evaluation of Arrhenius and van't Hoff plots. 209: 277
Kell, D. B. See Hitchens, G. D.
Kellett, G. L. See Jamal, A.; Khoja, S. M.
Kells, D. See Bennick, A.
Kembhavi, A. See Anastasi, A.
Kemmler, W. See Kirsch, D. M.
Kemp, P.
——; Lander, D. J. The hydrogenation of γ-linolenic acid by pure cultures of two rumen bacteria. 216: 519
Kempen, H. J. See Havekes, L.
Kempen, H. J. M.
——; Glatz, J. F. C.; De Lange, J.; Veerkamp, J. H. Concomitant increase in hepatic triacylglycerol biosynthesis and cytosolic fatty-acid-binding-protein content after feeding rats with a cholestyramine-containing diet. 216: 511
Kempf, C. See Brock, C. J.; Klausner, R. D.
Kennard, O. See Kamiya, K.
Kennedy, T. G. See Hobkirk, R.
Kenny, A. J. See Fulcher, I. S.; Gee, N. S.; Relton, J. M.
——; Fulcher, I. S.; McGill, K. A.; Kershaw, D. Proteins of the kidney microvillar membrane. Reconstitution of endopeptidase in liposomes shows that it is a short-stalked protein. 211: 755
Kerr, M. A. See Parkes, C.
Kershaw, D. See Kenny, A. J.
Keshi, I. See Fujimoto, Y.
Kessar, P. See Crompton, M.
Khalfan, H.
——; Abuknesha, R.; Robinson, D. Fluorigenic method for the assay of proteinase activity with the use of 4-methylumbelliferyl-casein. 209: 265
Khoja, S. M.
——; Beach, N. L.; Kellett, G. L. The isolation and characterization of phosphofructokinase from the epithelial cells of rat small intestine. 211: 373
——; Kellett, G. L. Phosphofructokinase D from the epithelial cells of rat small intestine. 215: 335
Khuchua, Z. A. See Gusev, N. B.
Kielty, C. M. See Gibson, G. J.
Kikuchi, Y.
——; Suzuki, Y.; Tamiya, N. The source of oxygen in the reaction catalyzed by collagen lysyl hydroxylase. 213: 507
Kilpatrick, B. F. See Ralston, J. S.
Kimura, S.
——; Elce, J. S.; Jellinck, P. H. Immunological relationship between peroxidases in eosinophils, uterus and other tissues of the rat. 213: 165
Kincaid, J. R. See Ahmad, M. B.
Kinderlerer, J. See Ainsworth, S.; Gregory, R. B.
King, P. A. See Goldstein, L.
——; Goldstein, L.; Newsholme, E. A. Glutamine synthetase activity of muscle in acidosis. 216: 523
Kingsman, A. J. See Perkins, R. E.
Kingsman, S. M. See Perkins, R. E.
Kirk, C. J. See Creba, J. A.; Hawkins, P. T.
Kirsch, D. M.
——; Baumgarten, M.; Deufel, T.; Rinninger, F.; Kemmler, W.; Haering, H. U. Catecholamine-induced insulin resistance of glucose transport in isolated rat adipocytes. 216: 737
Kirsch, E.
——; Glanville, R. W.; Krieg, T.; Mueller, P. Analysis of cyanogen bromide peptides of type I collagen from a patient with lethal osteogenesis imperfecta. Overhydroxylation of lysine residues is found all along the collagen chains. 211: 599
Kirschke, H.
——; Wood, L.; Roisen, F. J.; Bird, J. W. C. Activity of lysosomal cysteine proteinase during differentiation of rat skeletal muscle. 214: 871
Kirsten, H.
——; Christen, P. Catalytic activity of noncrosslinked microcrystals of aspartate aminotransferase in poly(ethylene glycol). 211: 427
Kitley, G. A. See Strange, R. C.
Kitson, T. M. Mechanism of inactivation of sheep liver cytoplasmic aldehyde dehydrogenase by disulfiram. 213: 551
Kjellen, L. See Kolset, S. O.
Klauser, S.
——; Kaegi, J. H. R.; Wilson, K. J. Characterization of isoprotein patterns in tissue extracts and isolated samples of metallothioneins by reversed-phase high-pressure liquid chromatography. 209: 71
Klausner, R. D.
——; Kempf, C.; Weinstein, J. N.; Blumenthal, R.; Van Renswoude, J. The folding of ovalbumin. Renaturation in vitro versus biosynthesis in vitro. 212: 801
Klein, A. See Koj, A.
Klim, R. A.
——; Williamson, D. H. Effects of glucose-containing peritoneal-dialysis solutions on rates of lipogenesis in vivo in the liver and brown and

white adipose tissue of chronic uremic rats. 214: 459
Klopper, A. See Bunce, G. E.
Kluve, B.
——; Merrick, W. C.; Gershman, H.
Mycoplasma-induced BALB/c 3T3 collagenase is a mammalian enzyme. 212: 641
Knauss, T. C. See Somermeyer, M. G.
Knecht, R. See Chang, J. Y.
Knight, B. L. See Gavigan, S. J. P.
——; Patel, D. D.; Soutar, A. K.
The regulation of 3-hydroxy-3-methylglutaryl-CoA reductase activity, cholesterol esterification, and the expression of low-density lipoprotein receptors in cultured monocyte-derived macrophages. 210: 523
Knight, C. G. See Matthews, I. T. W.
Knott-Hunziker, V. See Beesley, T.; Bicknell, R.
Knowles, P. F. See Blackburn, N. J.
Knowles, S. E. See Gunn, J. M.
Knudsen, J. See Grunnet, I.
Kocourek, J. See Guran, A.
Koga, M. See Ohtake, H.
Koide, T. See Odani, S.
Koj, A.
——; Dubin, A.; Klein, A.; Kurdowska, A.
Methionine in rabbit α_1-protease inhibitors. 213: 279
Kolset, S. O.
——; Kjellen, L.; Seljelid, R.; Lindahl, U.
Changes in glycosaminoglycan biosynthesis during differentiation in vitro of human monocytes. 210: 661
Kondo, M.
——; Koshihara, Y.; Kawamura, M.; Murota, S.
Identification of the mRNA and polypeptide subunit for prostaglandin endoperoxide synthase from mouse mastocytoma P-815 cells. 212: 219
Kondrup, J. See Dich, J.
Kopito, R. R. See Tomera, J. F.
Koren, R.
——; Cass, C. E.; Paterson, A. R. P.
The kinetics of dissociation of the inhibitor of nucleoside transport, nitrobenzylthioinosine, from the high-affinity binding sites of cultured hamster cells. 216: 299
Korkolainen, M. See Vuento, M.
Koshihara, Y. See Kondo, M.
Kotagal, N. See Colca, J. R.
Kowalski, A. See Gazzano, H.
Kragh-Hansen, U.
Relations between high-affinity binding sites for L-tryptophan, diazepam, salicylate, and Phenol Red on human serum albumin. 209: 135
Kraus-Friedmann, N. See Moore, P. B.
Krebs, H. A. See Vina, J.
——; Wiggins, D.; Stubbs, M.; Sols, A.; Bedoya, F.
Studies on the mechanism of the antifungal action of benzoate. 214: 657
Kresse, H. See Gloessl, J.
Krieg, T. See Kirsch, E.
Kristensen, B. See Lloyd, D.
Kristensen, L. O.
——; Folke, M.
Coupling ratio of electrogenic sodium-alanine cotransport in isolated rat hepatocytes. 210: 621
Kroll, R. G.
——; Booth, I. R.
The relationship between intracellular pH, the pH gradient and potassium transport in Escherichia coli. 216: 709
Kruijt, J. K. See Van Berkel, T. J. C.
Kubicek, C. P. See Habison, A.
Kuchel, P. W. See Endre, Z. H.
Kumar, S. See Varagiannis, E.
Kuo, J. F. See Katoh, N.; Qi, D. F.; Schatzman, R. C.
Kurdowska, A. See Koj, A.
Kushner, I. See MacIntyre, S. S.

LaBombardi, V. J.
——; Shaw, E.; DiStefano, J. F.; Beck, G.; Brown, F.; Zucker, S.
Isolation and characterization of a trypsin-like serine protease from the membranes of Walker 256 carcinosarcoma cells. 211: 695
Lacy, P. E. See Colca, J. R.
Lagercrantz, C.
——; Larsson, T.
Comparative studies of the binding of some ligands to human serum albumin noncovalently attached to immobilized Cibacron Blue, or covalently immobilized on Sepharose, by column affinity chromatography. 213: 387
Lai, M. See Corongiu, F. P.
Lakhchaura, B. D. See Chan, T. S.
Lalla-Maharajh, W. V.
——; Hall, D. O.; Cammack, R.; Rao, K. K.; Le Gall, J.
Purification and properties of the membrane-bound hydrogenase from Desulfovibrio desulfuricans. 209: 445
Lalwani, N. D. See Chatterjee, B.; Fahl, W. E.
Lambert, N. See Mills, E. N. C.
——; Freedman, R. B.
Structural properties of homogeneous protein disulfide-isomerase from bovine liver purified by a rapid high-yielding procedure. 213: 225
Kinetics and specificity of homogeneous protein disulfide-isomerase in protein disulfide isomerization and in thiol-protein-disulfide oxidoreduction. 213: 235
Lamy, M. T. See Bray, R. C.
Lander, D. J. See Kemp, P.
Landt, M. See Colca, J. R.
Lane, D. A. See Denton, J.
Lane, J. M. See Burk, R. F.
Lang, C. A. See Hazelton, G. A.
Lange, R. See Bray, R. C.
Langman, L. See Cox, G. B.; Fimmel, A. L.; Jans, D. A.; Senior, A. E.
Lappalainen, A. See Nummi, M.
Large, P. J. See Green, J.
Larkum, A. W. D. See Stewart, A. C.
Larsson, T. See Lagercrantz, C.
Lasthuis, A. M. See Van Dijk, W.
Lasuncion, M. A.
——; Herrera, E.
Changes with starvation in the rat of the lipoprotein lipase activity and hydrolysis of triacylglycerols from triacylglycerol-rich lipoproteins in adipose tissue preparations. 210: 639
Latchney, L. R. See Wise, J. G.
Latzko, E. See Murphy, D. J.
Lauffart, B. See Mantle, D.
Lauris, V. See Kahn, C. R.
Laussac, J. P.
——; Haran, R.; Sarkar, B.
NMR and EPR investigation of the interaction of copper(II) and glycyl-L-histidyl-L-lysine, a growth-modulating tripeptide from plasma. 209: 533
Lavau, M. See Bazin, R.
Law, M. Y.
——; Charles, S. A.; Halliwell, B.
Glutathione and ascorbic acid in spinach (Spinacia oleracea) chloroplasts. The effect of hydrogen peroxide and of paraquat. 210: 899
Law, S. K. A.
Nonenzymic activation of the covalent binding reaction of the complement protein C3. 211: 381
Laychock, S. G.
Identification and metabolism of polyphosphoinositides in isolated islets of Langerhans. 216: 101
Lazaro, R. See Molla, A.
Leadlay, P. F. See Fuller, J. Q.
——; Fuller, J. Q.
Proton transfer in methylmalonyl-CoA epimerase from Propionibacterium shermanii. Studies with specifically tritiated (2R)-methylmalonyl-CoA as substrate. 213: 635
Leakey, J. E. A.
——; Althaus, Z. R.; Bailey, J. R.; Slikker, W. Jr.
UDP-glucuronyltransferase

activity exhibits two develop= mental groups in liver from fetal rhesus monkeys. 214: 1007
Lebrun, P. See Sener, A.
Le Cam, A. See Auberger, P.; Fafournoux, P.
Leckie, B. See McIntyre, G. D.
Ledet, T. See Heickendorff, L.
Lee, C. L.
——; Li, S. S. L.; Li, C. Y.; Chu, T. M.
Purification and characterization of ribonucleases from human seminal plasma. 215: 605
Lee, Y. C. See Connolly, D. T.
Lees, G. M. See Burke, M. D.
Leese, H. J. See Nicholls, T. J.
Le Gall, J. See Lalla-Maharajh, W. V.
Legg, R. F. See Skilleter, D. N.
Leighton, B.
——; Nicholas, A. R.; Pogson, C. I.
The pathway of ketogenesis in rumen epithelium of the sheep 216: 769
Leinonen, P. See Eriksson, C. J. P.
Leitner, J. W. See Sussman, K. E.
Lem, N. W.
——; Williams, J. P.
Changes in the carbon-14-label= ing of molecular species of 3-monogalactosyl-1,2-diacyl= glycerol in leaves of Vicia faba treated with compound San 9785. 209: 513
Lemon, M. J. C. See Fiedler, F.
Leppik, R. A.
Deoxycholic acid degradation by a Pseudomonas sp. Acidic intermediates with A-ring unsaturation. 210: 829
Leserman, L. D. See Truneh, A.
Levene, C. I. See Bird, T. A.
Levy, A. L. See Smith, S. A.
Levy, H. R.
——; Christoff, M.
A critical appraisal of the effect of oxidized glutathione on hepatic glucose 6-phosphate dehydrogenase activity. 214: 959
Lewendon, A.
——; Coggins, J. R.
Purification of 5-enolpyruvyl= shikimate 3-phosphate syn= thase from Escherichia coli. 213: 187
Lewitt, M. See Dunn, B. M.
Leysath, G. See Fiedler, F.
Leytus, S. P.
——; Melhado, L. L.; Mangel, W. F.
Rhodamine-based compounds as fluorogenic substrates for serine proteinases. 209: 299
——; Patterson, W. L.; Mangel, W. F.
New class of sensitive and selec= tive fluorogenic substrates for serine proteinases. Amino acid and dipeptide derivatives of Rhodamine. 215: 253
Li, C. Y. See Lee, C. L.
Li, S. S. L. See Lee, C. L.
Li, Z. G. See Zhang, Y. S.
Liao, S. See Qi, D. F.
Licastro, F. See Barbieri, L.
Liew, C. C. See Jackowski, G.
Light, N. D. See Smolenski, K. A.
Lim, C. K. See Wright, D. J.
——; Rideout, J. M.; Wright, D. J.
Separation of porphyrin isomers by high-performance liquid chromatography. 211: 435
LiMuti, C.
——; Bell, J. E.
A steady-state random-order mechanism for the oxidative deamination of norvaline by glutamate dehydrogenase. 211: 99
Lindahl, U. See Denton, J.; Kol= set, S. O.
Linde, A. See Jontell, M.
Lindgren, H. See Carlstedt, I.
Lippiello, P. M.
——; Waite, M.
Kinetics and mechanism of phosphatidylcholine and cho= lesterol exchange between chylomicrons and high-density lipoproteins. 215: 279
Little, C. See Olsen, R. L.
Little, G. H. See Cole, K. D.
Livesey, G. See Weisbecker, U.
Bovine serum albumin decreases 4-methyl-2-oxovalerate utiliza= tion by isolated rat hepato= cytes. 212: 655
Lloyd, D. See Scott, R. I.
——; Kristensen, B.; Degn, H.
Glycolysis and respiration in yeasts. The Pasteur effect studied by mass spectrometry. 212: 749
——; Mellor, H.; Williams, J. L.
Oxygen affinity of the respirato= ry chain of Acanthamoeba castellanii. 214: 47
Lomax, M. A.
——; Donaldson, I. A.; Pogson, C. I.
The control of fatty acid meta= bolism in liver cells from fed and starved sheep. 214: 553
Londei, P.
——; Teichner, A.; Cammarano, P.; De Rosa, M.; Gambacorta, A.
Particle weights and protein composition of the ribosomal subunits of the extremely thermoacidophilic archaebac= terium Caldariella acidophila. 209: 461
Long, C. S. See McGarry, J. D.
Looney, F. D. See Curtain, C. C.
Lopez-Nieto, M. See Adlington, R. M.
Lorenzo, M.
——; Benito, M.; Caldes, T.; Medi= na, J. M.
Regulation of lipogenesis in vivo by glucose availability and insulin secretion in mater= nal and fetal tissues during late gestation in the rat. Effect of glucose intubation, strepto= zotocin-induced diabetes and starvation. 216: 695
Lottspeich, F. See Fiedler, F.
Loube, S. R.
——; Owen, M. J.; Crumpton, M. J.
Human Class I histocompatibili= ty antigens (HLA-A,B,C). A small proportion only is phos= phorylated. 210: 79
Low, M. G.
——; Weglicki, W. B.
Resolution of myocardial phos= pholipase C into several forms with distinct properties. 215: 325
Low, R. B. See Besterman, J. M.; Stirewalt, W. S.
Lowe, D. J. See Hawkes, T. R.; Smith, B. E.; Thorneley, R. N. F.
Lowe, P. J. See Barnwell, S. G.
Lowe, P. N. See Hodgson, J. A.
——; Hodgson, J. A.; Perham, R. N.
Dual role of a single multien= zyme complex in the oxidative decarboxylation of pyruvate and branched-chain 2-oxo acids in Bacillus subtilis. 215: 133
Lowenstein, L. M. See Bogusky, R. T.
Lowry, P. J. See Sykes, J. E. C.
Lozano, J. A. See Belda, F. J. F.
Ludden, P. W. See Nordlund, S.
Lumb, R. H. See Pool, G. L.
Lumper, L. See Vogel, F.
Lutaya, G.
——; Sharma, R. J.; Griffiths, J. R.
Glycogenolysis in liver of phos= phorylase kinase-deficient rats during liver perfusion and ischemia. 214: 645
Luzikov, V. N.
——; Novikova, L. A.; Tikhonov, A. N.; Zubatov, A. S.
Correlation between the rate of proteolysis of mitochondrial translation products and fluidi= ty of the mitochondrial inner membrane in Saccharomyces cerevisiae yeast. Alteration of the rate of proteolysis under glucose repression. 214: 785
Luzio, J. P. See Edwards, S. W.; Mullock, B. M.
——; Stanley, K. K.
The isolation of endosome-der= ived vesicles from rat hepato= cytes. 216: 27
Lycett, G. W. See Gatehouse, J. A.
Lynn, W. S. See Mohapatra, N.
Lyon, M.
——; Greenwood, J.; Sheehan, J.

K.; Nieduszynski, I. A.
Isolation and characterization of high-buoyant-density proteoglycans from bovine femoral-head cartilage. 213: 355
——; Nieduszynski, I. A.
A study of equilibrium binding of link protein to hyaluronate. 213: 445

Macartney, H. W.
——; Bates, S. R. E.; Blumson, N. L.; Nelson, D.: Jamison, D.; Elmore, D. T.
A recording viscometer for assaying mammalian collagenase 213: 275
McCauley, J. W.
——; Mahy, B. W. J.
Structure and function of the influenza virus genome. 211: 281
McCormack, J. G.
——; England, P. J.
Ruthenium Red inhibits the activation of pyruvate dehydrogenase caused by positive inotropic agents in the perfused rat heart. 214: 581
McCormick, K.
——; Notar-Francesco, V. J.
Importance of albumin binding in the assay for carnitine palmitoyltransferase. 216: 495
——; Notar-Francesco, V. J.; Sriwatanakul, K.
Inhibition by acetyl-CoA of hepatic carnitine acyltransferase and fatty acid oxidation. 216: 499
McCrodden, J. M. See Tipton, K. F.
McDaniel, M. L. See Colca, J. R.
McDermott, J. R. See Mantle, D.
McElligott, M. A.
——; Dice, J. F.
Erythrocyte-mediated microinjection, a technique to study protein degradation in muscle cells. 216: 559
McFadden, B. A. See Storroe, I.
McGarry, J. D. See Mills, S. E.
——; Mills, S. E.; Long, C. S.; Foster, D. W.
Observations on the affinity for carnitine, and malonyl-CoA sensitivity, of carnitine palmitoyltransferase I in animal and human tissues. Demonstration of the presence of malonyl-CoA in nonhepatic tissues of the rat. 214: 21
McGill, K. A. See Kenny, A. J.
McGivan, J. D. See Hayes, M. R.
——; Bradford, N. M.
Influence of phospholipids on the activity of phosphate-dependent glutaminase in extracts of rat liver mitochondria. 214: 649

Machy, P. See Truneh, A.
MacIntyre, D. E.
——; Pollock, W. K.
Platelet-activating factor stimulates phosphatidylinositol turnover in human platelets. 212: 433
McIntyre, G. D.
——; Leckie, B.; Hallett, A.; Szelke, M.
Purification of human renin by affinity chromatography using a new peptide inhibitor of renin, H.77 (D-His-Pro-Phe-His-Leu^R-Leu-Val-Tyr). 211: 519
MacIntyre, S. S.
——; Schultz, D.; Kushner, I.
Synthesis and secretion of C-reactive protein by rabbit primary hepatocyte cultures. 210: 707
McKay, M. J.
——; Offermann, M. K.; Barrett, A. J.; Bond, J. S.
Action of human liver cathepsin B on the oxidized insulin B chain. 213: 467
McKinley-McKee, J. S. See Dahl, K. H.
McKinney, J. S. See Putney, J. W. Jr.
McLaughlin, P. M. See Goldstein, L.
McLean, P. A.
——; Smith, B. E.; Dixon, R. A.
Nitrogenase of Klebsiella pneumoniae nif V mutants. Investigation of the novel carbon monoxide-sensitivity of hydrogen evolution by the mutant enzyme. 211: 589
McMahon, K. K. See Schimmel, R. J.
McNurlan, M. A. See Goldspink, D. F.
Madapallimattam, G. See Bennick, A.; Wong, R. S. C.
Maeda, N. See Tamiya, N.
Maggs, A. See Chin, T. K.
Maguire, G. A.
——; Docherty, K.; Hales, C. N.
Sugar transport in rat liver lysosomes. Direct demonstration by using labeled sugars. 212: 211
Mahy, B. W. J. See McCauley, J. W.
Main, A. R. See Ralston, J. S.
Majumder, S. See Ghosh, S. K.
Malaisse, W. J. See Sener, A.
——; Sener, A.; Welsh, M.; Malaisse-Lagae, F.; Hellerstroem, C.; Christophe, J.
Mechanism of 3-phenylpyruvate-induced insulin release. Metabolic aspects. 210: 921
Malaisse-Lagae, F. See Malaisse, W. J.; Sener, A.
Malcovati, M. See Boiteux, A.
Malmstroem, A. See Uldbjerg, N.
Malstroem, A. See Coester, L.

Malthouse, J. P. G.
——; Bray, R. C.
The effect of pH on the exchangeability with deuterium of protons coupled to molybdenum(V) in the active and the desulfo forms of xanthine oxidase. 215: 101
——; Scott, A. I.
Cryoenzymology of trypsin. A detailed kinetic study of the trypsin-catalysed hydrolysis of *N*-α-benzyloxycarbonyl-L-lysine *p*-nitrophenyl ester at low temperatures. 215: 555
Mamer, O. A. See Montgomery, J. A.
Manganiello, V. C. See Strewler, G. J.; Tsai, S. C.
Mangel, W. F. See Leytus, S. P.
Mann, G. E. See Rennie, M. J.
Mannaerts, G. P. See Van Veldhoven, P.
Mannervik, B.
——; Axelsson, K.; Sundewall, A. C.; Holmgren, A.
Relative contributions of thiol-transferase- and thioredoxin-dependent systems in reduction of low-molecular-mass and protein disulfides. 213: 519
Mantle, D.
——; Hardy, M. F.; Lauffart, B.; McDermott, J. R.; Smith, A. I.; Pennington, R. J. T.
Purification and characterization of the major aminopeptidase from human skeletal muscle. 211: 567
Mantle, P. G. See Willingale, J.
Mantle, T. J. See O'Fagain, C.
Marco, J. See Feliu, J. E.
Mardon, M. See Roch, A. M.
Margalit, R.
——; Shaklai, N.; Cohen, S.
Fluorimetric studies on the dimerization equilibrium of protoporphyrin IX and its hemato derivative. 209: 547
Marin-Cao, D.
——; Alvarez Chiva, V.; Mato, J. M.
β-Adrenergic control of phosphatidylcholine synthesis by transmethylation in hepatocytes from juvenile, adult and adrenalectomized rats. 216: 675
Markus, M. See Boiteux, A.
Marme, D. See Hertel, C.
Maroudas, A. See Bayliss, M. T.
Marra, E. See Passarella, S.
Marshall, P. J.
——; Sinnott, M. L.
Competitive inhibition of the inverting β-xylosidase of Bacillus pumilus 12 by monosaccharide derivatives of different structural and conformational types. A possible natural substrate. 215: 67
Martin, B. R. See Stein, J. M.; Wong, S. K. F.

Martin, T. J. See Moseley, J. M.
Martinez, M. C.
——; Nieuwenhuysen, P.; Clauwaert, J.; Cuchillo, C. M.
Pro-(carboxypeptidases A) from whole pig pancreas. Their mass, size, shape and solvation 215: 23
Maruta, H.
——; Arakawa, K.
Confirmation of direct angiotensin formation by kallikrein. 213: 193
Maruthi Mohan, P.
——; Sivarama Sastry, K.
Interrelationships in trace-element metabolism in metal toxicities in nickel-resistant strains of Neurospora crassa. 212: 205
Mason, R. J. See Pool, G. L.
Mason, R. M. See Venn, G.
Mathieu, H. See Danan, J. L.
Mato, J. M. See Marin-Cao, D.
——; Alemany, S.
What is the function of phospholipid N-methylation?. 213: 1
Matsas, R. See Gee, N. S.; Relton, J. M.
Matsumoto, T. See Yamada, M.
Matsunaga, E. See Nakamura, T.; Shinkai, H.
Matthews, I. T. W.
——; Decker, R. S.; Hornebeck, W.; Knight, C. G.
Dinitrophenylpepstatins as active-site-directed localization reagents for cathepsin D. 211: 139
Maulet, Y. See Comte, M.
Mayer, R. J. See Evans, P. J.; Russell, S. M.
Mazzei, G. J. See Qi, D. F.
Medina, J. M. See Arizmendi, C.; Fernandez, E.; Lorenzo, M.
Medow, M. S.
——; Roth, K. S.; Ginkinger, K.; Segal, S.
Renal brush-border-membrane vesicles prepared from newborn rats by free-flow electrophoresis and their proline uptake. 214: 209
Meenakshi, S.
——; Thirunavukkarasu, C.; Ramjamanickam, C.
Effect of cytosol on transport of RNA in vitro during cardiac hypertrophy. 209: 285
Mehra, R. K.
——; Bremner, I.
Development of a radioimmunoassay for rat liver metallothionein-I and its application to the analysis of rat plasma and kidneys. 213: 459
Meienhofer, M. C.
——; Dreyfus, J. C.; Kahn, A.
Induction of glycolytic enzyme synthesis in proliferating fibroblasts. Study of phospho-fructokinase, glucose phosphate isomerase and pyruvate kinase 214: 195
Meisel, P.
——; Biebler, K. E.; Gens, A.; Jaehrig, K.
Albumin binding of photobilirubin II. 213: 25
Meitinger, M. See Glanville, R. W.
Melhado, L. L. See Leytus, S. P.
Mellor, H. See Lloyd, D.
Mercer, E. See Cawston, T. E.
Mercer, S. W.
——; Trayhurn, P.
Developmental changes in fatty acid synthesis in interscapular brown adipose tissue of lean and genetically obese (ob/ob) mice. 212: 393
Merrick, W. C. See Kluve, B.
Merrill, S. See Tildon, J. T.
Metcalfe, J. C. See Hesketh, T. R.; Moore, J. P.
Meyer, F. A.
Polymeric structure of a high-molecular-weight glycoprotein from bovine cervical mucus. 215: 701
——; Paradossi, G.
The mechanism of thermal degradation of a high-molecular-weight glycoprotein complex from bovine cervical mucus. 209: 565
Meyer, O. See Bray, R. C.
Michaelson, D. M.
——; Barkai, G.; Barenholz, Y.
Asymmetry of lipid organization in cholinergic synaptic vesicle membranes. 211: 155
Michelangeli, V. P. See Moseley, J. M.
Michell, R. H. See Creba, J. A.; Hawkins, P. T.
Micklem, K. J. See Gomperts, B. D.
Middle, F. A.
——; Bannister, A.; Bellingham, A. J.; Dean, P. D. G.
Separation of glycosylated hemoglobins using immobilized phenylboronic acid. Effect of ligand concentration, column operating conditions, and comparison with ion exchange and isoelectric focusing. 209: 771
Mietaschk, J. See Hlavica, P.
Miggiano, V. See Vartio, T.
Milbert, U. See Friedberg, T.
Milia, A. See Corongiu, F. P.
Miller, A. L. See Campbell, C. H.
Miller, D. J.
——; Wood, P. M.
Carbon monoxide-binding c-type cytochromes and a high-potential cytochrome c in Nitrosomonas europaea. 211: 503
Mills, C. F. See Bunce, G. E.
Mills, E. N. C.
——; Lambert, N.; Freedman, R. B.
Identification of protein disulfide-isomerase as a major acidic polypeptide in rat liver microsomal membranes. 213: 245
Mills, G. See Hughes, R. C.
Mills, S. E. See McGarry, J. D.
——; Foster, D. W.; McGarry, J. D.
Interaction of malonyl-CoA and related compounds with mitochondria from different rat tissues. Relationship between ligand binding and inhibition of carnitine palmitoyltransferase I. 214: 83
Millward, D. J. See Bates, P. C.; Brown, J. G.; Odedra, B. R.
——; Bates, P. C.
3-Methylhistidine turnover in the whole body, and the contribution of skeletal muscle and intestine to urinary 3-methylhistidine excretion in the adult rat. 214: 607
——; Odedra, B.; Bates, P. C.
The role of insulin, corticosterone and other factors in the acute recovery of muscle protein synthesis on refeeding food-deprived rats. 216: 583
Milner, N. P. See Isaac, R. E.
Minakami, S. See Sakai, H.; Wakeyama, H.
Mishal, Z. See Truneh, A.
Mitch, W. E. See Clark, A. S.
Mitchell, J. L. A.
——; Wilson, J. M.
Polyamine-stimulated alteration of the ornithine decarboxylase molecule in Physarum polycephalum. 214: 345
Mitropoulos, K. A. See Synouri-Vrettakou, S.
Mizuno, M. See Ibata, K.
Moczar, E. See Moczar, M.
Moczar, M.
——; Phan-Dinh-Tuy, B.; Moczar, E.; Robert, L.
Structural glycoproteins from rabbit aortic media. 211: 257
Moerland, J. See Stowell, L.
Mohapatra, N.
——; Lynn, W. S.; Bhattacharyya, S. N.
Effects of bleomycin and methylprednisolone on the biosynthesis of oligosaccharide-lipids and glycoproteins in lung. 213: 609
Moir, A. J. G.
——; Ordidge, M.; Grand, R. J. A.; Trayer, I. P.; Perry, S. V.
Studies of the interaction of troponin I with proteins of the I-filament and calmodulin. 209: 417
Moldawer, L. L.
——; Kawamura, I.; Bistrian, B. R.; Blackburn, G. L.
The contribution of phenylalanine to tyrosine metabolism in vivo. Studies in the postab-

sorptive and phenylalanine-loaded rat. 210: 811
Molla, A.
——; Hincke, M. T.; Katz, S.; Lazaro, R.
Azidocalmodulin derivatives. Activation of, and binding to, three target proteins: aorta myosin light-chain kinase, erythrocyte (magnesium plus calcium)-dependent ATPase, and cardiac sarcoplasmic reticulum [protein] kinase. 215: 475
Montague, W. See Schrey, M. P.
Montgomery, J. A.
——; Mamer, O. A.; Scriver, C. R.
Metabolism of ethylmalonate to mesaconate in the rat. Evidence for trans-dehydrogenation of methylsuccinate. 214: 641
Montoro, J. B. See Vina, J. R.
Montreuil, J. See Cahour, A.
Moody, A. J.
——; Reid, R. A.
Inhibition of nicotinamide nucleotide transhydrogenase in rat liver submitochondrial particles by dicyclohexylcarbodiimide and butanedione. 209: 889
Moore, C. H. See Speirs, A.
Moore, G. See Gewert, D. R.
Moore, G. R. See Boswell, A. P.; Eley, C. G. S.; Robinson, M. N.
Moore, J. P.
——; Smith, G. A.; Hesketh, T. R.; Metcalfe, J. C.
The bivalent-cation dependence of phosphatidylinositol synthesis in a cell-free system from lymphocytes. 212: 691
Large effects of preparative techniques on lymphocyte cyclic AMP content. 216: 207
Moore, P. B.
——; Kraus-Friedmann, N.
Hepatic microsomal calcium ATPase. Calmodulin-dependence and partial purification. 214: 69
More, J. E.
——; Jones, M. N.
The effect of membrane composition and alcohols on the insulin-sensitive reconstituted monosaccharide-transport system of rat adipocyte plasma membranes. 216: 113
Moreno, A. J. M. See Vale, M. G. P.
Morgan, B. P. See Edwards, S. W.
Morgan, C. J. See Badawy, A. A. B.
Morgan, H. W. See Walsh, K. A. J.
Morpurgo, L. See Musci, G.
——; Hartmann, H. J.; Desideri, A.; Weser, U.; Rotilio, G.
Yeast copper-thionein can reconstitute the Japanese lacquer tree (Rhus vernicifera) laccase from the type 2 copper-depleted enzyme via a direct copper(I)-transfer mechanism. 211: 515
Morre, D. J. See Creek, K. E.
Morris, G. E.
——; Head, L. P.
Immunoassay of muscle-specific creatine kinase with a monoclonal antibody and application to myogenesis and muscular dystrophy. 213: 417
Morris, P. G. See Cox, D. W. G.
Mort, J. S.
——; Poole, A. R.; Roughley, P. J.
Age-related changes in the structure of proteoglycan link proteins present in normal human articular cartilage. 214: 269
Moseley, J. M.
——; Findlay, D. M.; Gorman, J. J.; Michelangeli, V. P.; Martin, T. J.
The calcitonin receptor on T 47D breast cancer cells. Evidence for glycosylation. 212: 609
Moss, E. J.
——; Judah, D. J.; Przybylski, M.; Neal, G. E.
Some mass-spectral and NMR analytical studies of a glutathione conjugate of aflatoxin B_1. 210: 227
Mueller, A. See Cadenas, E.
Mueller, P. See Hertel, C.; Kirsch, E.
Muench, U. See Schadewaldt, P.
Muilerman, H. G. See Van Dijk, W.
Muir, E. M.
——; Bowyer, D. E.
Dependence of fluid-phase pinocytosis in arterial smooth-muscle cells on temperature, cellular ATP concentration and the cytoskeletal system. 216: 467
Muir, H. See Plaas, A. H. K.
Mujoo, K. See Ali, M.
——; Ali, M.; Sahib, M. K.
Isolation, characterization and synthesis of α-fetoprotein from neonatal rat skin. 216: 227
Mukherjee, K. D. See Murphy, D. J.
Mukhopadhyay, N. K. See Ghosh, S. K.
Mullen, E.
——; Akhtar, M.
Structural studies on membrane-bound bovine rhodopsin. 211: 45
Muller, C. D. See Muller, H. M.
Muller, H. M.
——; Muller, C. D.; Schuber, F.
NAD^+ glycohydrolase, an ectoenzyme of calf spleen cells. 212: 459
Mullock, B. M.
——; Luzio, J. P.; Hinton, R. H.
Preparation of a low-density species of endocytic vesicle containing immunoglobulin A. 214: 823
Munday, M. R. See Gibbons, G. F.
——; Williamson, D. H.
Diurnal variations in food intake and in lipogenesis in mammary gland and liver of lactating rats. 214: 183
Municio, A. M. See Casals, C.
Murota, S. See Kondo, M.
Murphy, D. J.
——; Mukherjee, K. D.; Latzko, E.
Lipid metabolism in microsomal fraction from photosynthetic tissue. Effects of catalase and hydrogen peroxide on oleate desaturation. 213: 249
Murphy, G. See Cawston, T. E.; Galloway, W. A.
Murphy, G. J.
——; Stansfield, D. A.
Problems associated with assessment of the effect of GDP upon hormone stimulation of adenylate cyclase. 216: 527
Murphy, J. A. See Adlington, R. M.
Murray, G. I. See Burke, M. D.
Murray, W. J. See Pieper, G. M.
Muscari, C. See Guarnieri, C.
Musci, G.
——; Desideri, A.; Morpurgo, L.; Garnier-Suillerot, A.; Tosi, L.
Low-temperature resonance-Raman spectra of Japanese-lacquer-tree (Rhus vernicifera) laccase, type-2-copper-depleted laccase and hydrogen-peroxide-treated type-2-copper-depleted laccase. 213: 503
Mushiri, S. M. See Brocklehurst, K.
Mvumbi, L.
——; Dopere, F.; Stalmans, W.
The inhibitory effect of phosphorylase a on the activation of glycogen synthase depends on the type of synthase phosphatase. 212: 407
Myers, T. D. See Tate, C. A.

Nafe, C. K. See Wartell, S. A.
Nagamatsu, Y.
——; Oka, T.
The differential actions of cortisol on the synthesis and turnover of α-lactalbumin and casein and on accumulation of their mRNA in mouse mammary gland in organ culture. 212: 507
Nagase, H.
——; Brinckerhoff, C. E.; Vater, C. A.; Harris, E. D. Jr.
Biosynthesis and secretion of procollagenase by rabbit synovial fibroblasts. Inhibition of

procollagenase secretion by monensin and evidence for glycosylation of procollagenase 214: 281
Nagata, K. See Sagara, J.
Nakagawa, S. See Sasaki, T.
Nakamura, T. See Shinkai, H.
——; Matsunaga, E.; Shinkai, H. Isolation and some structural analyses of a proteodermatan sulfate from calf skin. 213: 289
Nakano, E. See Iwata, M.
Nandi, J. See Ray, T. K.
——; Zhou, M.; Ray, T. K. Role of membrane-associated thiol groups in the functional regulation of gastric microsomal hydrogen-potassium ATPase system. 213: 587
Nandi, S. See Smith, S.
Napoli, J. L.
——; Horst, R. L. (23S)-1,23,25-Trihydroxycholecalciferol, an intestinal metabolite of 1,25-dihydroxycholecalciferol. 214: 261
Naqui, A. What does I_{50} mean?. 215: 429
Natori, S. See Okada, M.
Neal, G. E. See Moss, E. J.
Nebreda, A. R. See Sanchez, A.
Neelands, P. J.
——; Clandinin, M. T. Diet fat influences liver plasma-membrane lipid composition and glucagon-stimulated adenylate cyclase activity. 212: 573
Negrel, R. See Grimaldi, P.
Neifakh, A. A.
——; Yarygin, K. N.; Gorgolyuk, S. I. Ornithine decarboxylase activity in embryos depends on temperature of development rather than on the stage of development. Molecular adaptation to temperature changes in poikilothermic animals. 216: 597
Nelson, B. D. See Wielburski, A.
Nelson, D. See Macartney, H. W.
Nemenoff, R. A. See Blackshear, P. J.
Nesher, R. See Sussman, K. E.
Neuberger, A. See Desai, N. N.
Neuburger, M.
——; Douce, R. Slow passive diffusion of NAD^+ between intact isolated plant mitochondria and suspending medium. 216: 443
Neuschatz, T. See Smith, A.
Newby, A. C. See Worku, Y.
——; Holmquist, C. A.; Illingworth, J.; Pearson, J. D. The control of adenosine concentration in polymorphonuclear leukocytes, cultured heart cells and isolated perfused heart from the rat. 214: 317
Newsholme, E. A. See Ardawi, M. S. M.; Dohm, G. L.; Espinal, J.; King, P. A.; Surholt, B.
Nichol, L. W. See Tellam, R. L.
Nicholas, A. R. See Leighton, B.
Nicholls, P. See Hill, B. C.; Proteau, G.
Nicholls, T. J.
——; Leese, H. J.; Bronk, J. R. Transport and metabolism of glucose by rat small intestine. 212: 183
Nicholson, J. K.
——; Buckingham, M. J.; Sadler, P. J. High resolution proton NMR studies of vertebrate blood and plasma. 211: 605
——; Sadler, P. J.; Cain, K.; Holt, D. E.; Webb, M.; Hawkes, G. E. 88 MHz cadmium-113 NMR studies of native rat liver metallothioneins. 211: 251
Nicholson, R. B. See Thomas, R. M.
Nicklin, M. J. H. See Anastasi, A.
Nieduszynski, I. A. See Lyon, M.; Sanderson, P. N.
Nieuwenhuysen, P. See Martinez, M. C.
Niku-Paavola, M. L. See Nummi, M.
Nilsson, T.
——; Sjoeholm, I.; Wiman, B. Structural and circular-dichroism studies on the interaction between human $C\bar{1}$-esterase inhibitor and $C\bar{1}s$. 213: 617
Nimmo, I. A. See Ramage, P. I. N.
Nishimura, J. S. See Prasad, A. R. S.
Noji, S. See Shidoji, Y.
Nordlund, S.
——; Ludden, P. W. Incorporation of adenine into the modifying group of inactive iron protein of nitrogenase from Rhodospirillum rubrum. 209: 881
Nordmann, J. See Bauche, F.
Nordmann, R. See Bauche, F.
Noren, O. See Danielsen, E. M.
Northcote, D. H. See Bolwell, G. P.; Turnham, E.
Notar-Francesco, V. J. See McCormick, K.
Notton, B. A. See Gutteridge, S.
Novikova, L. A. See Luzikov, V. N.
Nsimba-Lubaki, M.
——; Peumans, W. J.; Carlier, A. R. Isolation and partial characterization of a lectin from Euphorbia heterophylla seeds. 215: 141
Nummi, M.
——; Niku-Paavola, M. L.; Lappalainen, A.; Enari, T. M.; Raunio, V. Cellobiohydrolase from Trichoderma reesei. 215: 677
Nunn, P. B. See Bird, M. I.

O'Brien, J. S. See Hubert, J. J.
O'Brien, M. M.
——; Schofield, P. J.; Edwards, M. R. Polyol-pathway enzymes of human brain. Partial purification and properties of sorbitol dehydrogenase. 211: 81
Odani, S.
——; Koide, T.; Ono, T.; Ohnishi, K. Structural relationship between barley (Hordeum vulgare) trypsin inhibitor and castor-bean (Ricinus communis) storage protein. 213: 543
Odedra, B. See Millward, D. J.
Odedra, B. R.
——; Bates, P. C.; Millward, D. J. Time course of the effect of catabolic doses of corticosterone on protein turnover in rat skeletal muscle and liver. 214: 617
Odermatt, E. See Furthmayr, H.
——; Risteli, J.; Van Delden, V.; Timpl, R. Structural diversity and domain composition of a unique collagenous fragment (intima collagen) obtained from human placenta. 211: 295
O'Donnell, M. J. See Smith, B. E.
Oesch, F. See Friedberg, T.
O'Fagain, C.
——; Butler, B. M.; Mantle, T. J. The effect of pH on the kinetics of arylsulfatases A and B. 213: 603
Offermann, M. K. See McKay, M. J.
——; Chlebowski, J. F.; Bond, J. S. Action of cathepsin D on fructose-1,6-bisphosphate aldolase 211: 529
Offord, R. E. See Burgess, A. I.; Rose, K.
Ogata, E. See Yamada, M.
Ogino, T. See Isobe, K.
Ohba, Y. See Yokoi, H.
Ohnishi, K. See Odani, S.
Ohtake, H.
——; Suyemitsu, T.; Koga, M. Sea urchin (Anthocidaris crassispina) egg zinc-binding protein. Cellular localization, purification, and characterization. 211: 109
Oka, T. See Nagamatsu, Y.
Okada, M.
——; Natori, S. Purification and characterization of an antibacterial protein from hemolymph of Sarcophaga peregrina (flesh-fly) larvae. 211: 727

Okamoto, Y.
——; Sakai, H.; Sato, J.; Akamatsu, N.
Effects of dibutyryl cyclic AMP on the syntheses of dolichol-linked saccharides and glycoproteins in cultured hepatoma cells. Correlation with the effect on the adhesiveness of the cells. 212: 859
Okolie, E. E.
——; Onyezili, N. I.
ADP-ribosyltransferase in Plasmodium (malaria parasites). 209: 687
Okuda, S.
——; Suzuki, N.
2,3-Diamino-2,3-dideoxy-D-glucofuranurono-6,3-lactam from the hydrolyzate of Pseudomonas aeruginosa P14 lipopolysaccharide. 215: 597
Olsen, R. L.
——; Little, C.
Purification and some properties of myeloperoxidase and eosinophil peroxidase from human blood. 209: 781
O'Neill, P.
——; Fielden, E. M.; Finazzi-Agro, A.; Avigliano, L.
Pulse-radiolysis studies on the interaction of one-electron-reduced species with ascorbate oxidase in aqueous solution. 209: 167
Onishi, S. See Isobe, K.
Ono, T. See Odani, S.
Onyezili, N. I. See Okolie, E. E.
Ord, J. M. See Crie, J. S.
Ordal, G. W. See Ahlgren, J. A.
Ordidge, M. See Moir, A. J. G.
Orlando, A. R.
——; Ade, P.; Di Maggio, D.; Fanelli, C.; Vittozzi, L.
The purification of a novel amylase from Bacillus subtilis and its inhibition by wheat proteins. 209: 561
Osborne, W. R. A.
——; Scott, C. R.
The metabolism of deoxyguanosine and guanosine in human B and T lymphoblasts. A role for deoxyguanosine kinase activity in the selective T-cell defect associated with purine nucleoside phosphorylase deficiency. 214: 711
Otter, D. E. See Geddes, R.
Otto, B. See Rose, K.
Otto, D. A. See Cook, G. A.
Owen, J. S. See Hassall, D. G.
Owen, M. J. See Loube, S. R.
Owen, R. W.
——; Bilton, R. F.
The degradation of cholic acid by Pseudomonas sp. N.C.I.B. 10590 under anaerobic conditions. 216: 641

Packman, L. C.
——; Stanley, C. J.; Perham, R. N.
Temperature-dependence of intramolecular coupling of active sites in pyruvate dehydrogenase multienzyme complexes. 213: 331
Pahlic, M.
——; Tyson, J. J.
A cell-cycle-dependent protein of Physarum polycephalum revealed by two-dimensional gel electrophoresis. 212: 245
Pain, R. H. See Thomas, R. M.
Paine, A. J. See Hockin, L. J.
Pajula, R. L.
Kinetic properties of spermine synthase from bovine brain. 215: 669
Paladini, A. C. See Bonifacino, J. S.
Palmer, R. M. See Smith, R. H.
——; Reeds, P. J.; Atkinson, T.; Smith, R. H.
The influence of changes in tension on protein synthesis and prostaglandin release in isolated rabbit muscles. 214: 1011
Palmer, T. N. See Sugden, M. C.
——; Caldecourt, M. A.; Sugden, M. C.
Adrenergic inhibition of branched-chain 2-oxo acid dehydrogenase in rat diaphragm muscle in vitro. 216: 63
Palmer, W. K.
——; Kane, T. A.
Hormonal activation of type-L hormone-sensitive lipase measured in defatted heart powders. 212: 379
Hormone-stimulated lipolysis in cardiac myocytes. 216: 241
Pan, B. T.
——; Blostein, R.; Johnstone, R. M.
Loss of the transferrin receptor during the maturation of sheep reticulocytes in vitro. An immunological approach. 210: 37
Pandalis, G. See Eckel, J.
Pandit, M. W. See Sankaran, K.
Pang, K. Y. See Shub, M. D.
Papa, S.
——; Guerrieri, F.; Izzo, G.
The mechanism of proton translocation by the cytochrome system of mitochondria. Characterization of proton-transfer reactions associated with oxidoreductions of terminal respiratory carriers. 216: 259
Papas, E. J. See Kasprzak, A. A.
Paradossi, G. See Meyer, F. A.
Pares, X. See Julia, P.
Parham, P. See Ways, J. P.
Parker, J. C.
——; Barritt, G. J.; Wadsworth, J. C.
A kinetic investigation of the effects of adrenaline on calcium-45 ion exchange in isolated hepatocytes at different calcium concentrations, at 20°C and in the presence of inhibitors of mitochondrial calcium transport. 216: 51
Parkes, C.
——; Gagnon, J.; Kerr, M. A.
The reaction of iodine and thiol-blocking reagents with human complement components C2 and factor B. Purification and N-terminal amino acid sequence of a peptide from C2a containing a free thiol group. 213: 201
Parodi, A. J. See Quesada-Allue, L. A.
Parry, J. B.
——; Stewart, J. C.; Heptinstall, J.
Purification of the major endoglucanase from Aspergillus fumigatus Fresenius. 213: 437
Parvy, P. See Coude, F. X.
Pasco, D. See Smith, S.
Passarella, S.
——; Marra, E.; Doonan, S.; Quagliariello, E.
Uptake of malate dehydrogenase into mitochondria in vitro. Some characteristics of the process. 210: 207
Patel, A. See Campbell, A. K.
Patel, D. D. See Knight, B. L.
Patel, G. See Brocklehurst, K.
Patel, K. See Burk, R. F.
Patel, M. S. See Chuang, D. T.
Patel, N. See Adlington, R. M.
Paterson, A. R. See Jarvis, S. M.
Paterson, A. R. P. See Koren, R.
Patole, M. S. See Swaroop, A.
Pattabiraman, T. N. See Jacob, R. T.
Patten, G. S.
——; Clark, M. G.
Calcium-mediated activation of phosphofructokinase in perfused rat heart. 216: 717
Patterson, W. L. See Leytus, S. P.
Paulsson, M.
——; Sommarin, Y.; Heinegaard, D.
Metabolism of cartilage proteins in cultured tissue sections. 212: 659
Pearson, J. D. See Cusack, N. J.; Newby, A. C.
——; Slakey, L. L.; Gordon, J. L.
Stimulation of prostaglandin production through purinoceptors on cultured porcine endothelial cells. 214: 273
Pedersen, P. L. See Kaplan, R. S.
Pegg, A. E. See Della Ragione, F.; Seely, J. E.
——; Jacobs, G.
Comparison of inhibitors of S-adenosylmethionine decarboxylase from different species. 213: 495
Pegorier, J. P.
——; Duee, P. H.; Girard, J.; Peret,

J.
Metabolic fate of nonesterified fatty acids in isolated hepatocytes from newborn and young pigs. Evidence for a limited capacity for oxidation and increased capacity for esterification. 212: 93
Pelech, S. L.
——; Pritchard, P. H.; Brindley, D. N.; Vance, D. E.
Fatty acids reverse the cyclic AMP inhibition of triacylglycerol and phosphatidylcholine synthesis in rat hepatocytes. 216: 129
Pell, J. M.
——; Caldarone, E. M.; Bergman, E. N.
Importance of sites of tracer administration and blood sampling in relation to leucine metabolism. Practical considerations. 214: 1015
Penn, E. J. See Hutton, J. C.
Pennington, J. See Childs, R. A.
Pennington, R. J. T. See Mantle, D.
Perera, K. P. W. C. See Willingale, J.
Peret, J. See Pegorier, J. P.
Perham, R. N. See Hodgson, J. A.; Lowe, P. N.; Packman, L. C.
Perkins, R. E.
——; Conroy, S. C.; Dunbar, B.; Fothergill, L. A.; Tuite, M. F.; Dobson, M. J.; Kingsman, S. M.; Kingsman, A. J.
The complete amino acid sequence of yeast phosphoglycerate kinase. 211: 199
Perlman, D. F. See Goldstein, L.
Perry, S. V. See Grand, R. J. A.; Moir, A. J. G.
Peschek, G. A.
The cytochrome f–b electron–transport complex. A common link between photosynthesis and respiration in the cyanobacterium Anacystis nidulans. 210: 269
Peshavaria, M. See Hutton, J. C.
Petersen, L. C.
Determination of Michaelis parameters from differentials of progress curves. 215: 589
——; Joergensen, M.
Electrostatic interactions in the heparin–enhanced reaction between human thrombin and antithrombin. 211: 91
Peterson, J. See Hill, B. C.
Petit, F. See Coude, F. X.
Petrou, A. See Adzamli, I. K.
Petursson, S. See Beesley, T.
Peuhkurinen, K. J.
——; Hiltunen, J. K.; Hassinen, I. E.
Metabolic compartmentation of pyruvate in the isolated perfused rat heart. 210: 193
Peumans, W. J. See Nsimba–Lubaki, M.
Pham, C. See Dunn, B. M.
Phan–Dinh–Tuy, B. See Moczar, M.
Phillips, G. O. See Davies, A.
Phillips, I. R. See Shephard, E. A.
——; Shephard, E. A.; Bayney, R. M.; Pike, S. F.; Rabin, B. R.; Heath, R.; Carter, N.
Induction and repression of the major phenobarbital–induced cytochrome P–450 measured by radioimmunoassay. 212: 55
Phillips, J. C. See Torensma, R.
Phizackerley, P. J. R. See Harmon, C. S.
Picard, J. See Cherqui, G.
Pieper, G. M.
——; Salhany, J. M.; Murray, W. J.; Wu, S. T.; Eliot, R. S.
Abnormal phosphocreatine metabolism in perfused diabetic hearts. A ^{31}P nuclear–magnetic–resonance study. 210: 477
Pike, S. F. See Adams, A.; Phillips, I. R.; Shephard, E. A.
Pilsworth, L. M. C. See Saklatvala, J.
——; Saklatvala, J.
The cartilage–resorbing protein catabolin is made by synovial fibroblasts and its production is increased by phorbol myristate acetate. 216: 481
Pinkwart, M. See Schneider, K.
Pirisino, R. See Buffoni, F.
Pittman, R. C.
——; Carew, T. E.; Glass, C. K.; Green, S. R.; Taylor, C. A. Jr.; Attie, A. D.
A radioiodinated, intracellularly trapped ligand for determining the sites of plasma protein degradation in vivo. 212: 791
Pitts, B. J. R. See Tate, C. A.
Pizzo, S. V. See Gonias, S. L.; Imber, M. J.
Plaas, A. H. K.
——; Sandy, J. D.; Muir, H.
Proteoglycan aggregate formation by articular chondrocytes. Decrease in link–protein synthesis during culture. 214: 855
Plas, C. See Pringault, E.
Plehwe, W. E.
——; Williams, P. F.; Caterson, I. D.; Harrison, L. C.; Turtle, J. R.
Calcium–dependence of insulin receptor phosphorylation. 214: 361
Plesser, T. See Boiteux, A.
Pogson, C. I. See Cook, J. S.; Leighton, B.; Lomax, M. A.
Pohjanpelto, P. See Holtta, E.
Pohlmann, R. See Hasilik, A.
Poli, P. See Grimaldi, P.
Pollard, H. B. See Sussman, K. E.
Pollard, M. See Scragg, I.
Pollock, W. K. See MacIntyre, D. E.
Pomeroy, J. S. See Shedlofsky, S. I.
Pool, G. L.
——; Bubacz, D. G.; Lumb, R. H.; Mason, R. J.
Phospholipid–transfer activities in cytosols from lung, isolated alveolar type II cells and alveolar type II cell–derived adenomas. 215: 637
Poole, A. R. See Mort, J. S.
Portenier, M. See Hertel, C.
Poulos, A. See Jones, C. S.
Poulsen, S. S. See Danielsen, E. M.
Powers, J. C. See Cook, R. R.
Pozzan, T. See Baumgarten, E.; Hesketh, T. R.
Prasad, A. R. S.
——; Ybarra, J.; Nishimura, J. S.
Chemical modification of Escherichia coli succinyl–CoA synthetase with the adenine nucleotide analogue 5'–p–fluorosulfonylbenzoyladenosine. 215: 513
Pratt, G. J. See Burchell, B.
Praz, G. A. See Halban, P. A.
——; Halban, P. A.; Wollheim, C. B.; Blondel, B.; Strauss, A. J.; Renold, A. E.
Regulation of immunoreactive–insulin release from a rat cell line (RINm5F). 210: 345
Preedy, V. R. See Garlick, P. J.
——; Garlick, P. J.
Protein synthesis in skeletal muscle of the perfused rat hemicorpus compared with rates in the intact animal. 214: 433
Prehm, P.
Synthesis of hyaluronate in differentiated teratocarcinoma cells. Characterization of the synthase. 211: 181
Synthesis of hyaluronate in differentiated teratocarcinoma cells. Mechanism of chain growth. 211: 191
Price, N. C.
——; Stevens, E.
The refolding of denatured rabbit muscle pyruvate kinase. 209: 763
The denaturation of rabbit muscle phosphorylase b by guanidinium chloride. 213: 595
Price, R. J. See Skilleter, D. N.
Price–Jones, M. J.
——; Harwood, J. L.
Hormonal regulation of phosphatidylcholine synthesis in plants. The inhibition of cytidylyl transferase activity by indol–3–ylacetic acid. 216: 627
Priest, D. G. See Sur, P.
Prigent, M. J. See Blanchard, D.

Prince, C. W.
——; Rahemtulla, F.; Butler, W. T.
Metabolism of rat bone proteoglycans in vivo. 216: 589
Pringault, E.
——; Plas, C.
Differences in degradation processes for insulin and its receptor in cultured fetal hepatocytes. 212: 529
Prior, C. P. See Rose, K.
Pritchard, P. H. See Pelech, S. L.
Proteau, G.
——; Wrigglesworth, J. M.; Nicholls, P.
Protonmotive functions of cytochrome c oxidase in reconstituted vesicles. Influence of turnover rate on 'proton translocation'. 210: 199
Prydz, H. See Gogstad, G.
Przybylski, M. See Moss, E. J.
Puertes, I. R. See Vina, J. R.
Pullinger, C. R. See Gibbons, G. F.
——; Gibbons, G. F.
The role of substrate supply in the regulation of cholesterol biosynthesis in rat hepatocytes 210: 625
Puranam, R. S. See Swaroop, A.
Purdie, A.
——; Wells, R. M. G.; Brittain, T.
Molecular aspects of embryonic mouse hemoglobin ontogeny. 215: 377
Putney, J. W. Jr.
——; Burgess, G. M.; Halenda, S. P.; McKinney, J. S.; Rubin, R. P.
Effects of secretagogues on [^{32}P]phosphatidylinositol 4,5-bisphosphate metabolism in the exocrine pancreas. 212: 483

Qi, D. F.
——; Schatzman, R. C.; Mazzei, G. J.; Turner, R. S.; Raynor, R. L.; Liao, S.; Kuo, J. F.
Polyamines inhibit phospholipid-sensitive and calmodulin-sensitive calcium-dependent protein kinases. 213: 281
Qian, R. G. See Scott, J. E.
Quagliariello, E. See Passarella, S.
Quaroni, A. See Sasak, W.
Quash, G. See Roch, A. M.
Quesada-Allue, L. A.
——; Parodi, A. J.
Novel mannose carrier in the trypanosomatid Crithidia fasciculata behaving as a short α-saturated polyprenyl phosphate. 212: 123
Quinlan, P. T. See Halestrap, A. P.
——; Thomas, A. P.; Armston, A. E.; Halestrap, A. P.
Measurement of the intramitochondrial volume in hepatocytes without cell disruption and its elevation by hormones and valinomycin. 214: 395
Quirk, J. G. See Bleasdale, J. E.

Rabier, D. See Coude, F. X.
Rabin, B. R. See Adams, A.; Phillips, I. R.; Shephard, E. A.
Rabinowitz, M. See Reddy, M. K.
Radhakrishnan, A. N. See Sankaran, K.
Radicella, J. P. See Calvo, J. C.
Raeymaekers, L.
——; Wuytack, F.; Eggermont, J.; De Schutter, G.; Casteels, R.
Isolation of a plasma-membrane fraction from gastric smooth muscle. Comparison of the calcium uptake with that in endoplasmic reticulum. 210: 315
Rahemtulla, F. See Prince, C. W.
Rahi, H.
——; Srivastava, P. N.
Isolation and characterization of the pig endometrial arylsulfatase A. 211: 649
Raiford, D. See Gahl, W. A.
Raijman, L. See Katz, J.
Raimondi, L. See Buffoni, F.
Rajamanickam, C. See Meenakshi, S.
Ralston, J. S.
——; Main, A. R.; Kilpatrick, B. F.; Chasson, A. L.
Use of procainamide gels in the purification of human and horse serum cholinesterases. 211: 243
Ramage, P. I. N.
——; Nimmo, I. A.
The purification of the hepatic glutathione S-transferases of rainbow trout by glutathione affinity chromatography alters their isoelectric behavior. 211: 523
Ramantanis, G. See Deliconstantinos, G.
Ramasarma, T. See Swaroop, A.
Randles, D. See Armarego, W. L. F.
Rannels, D. E. See Wartell, S. A.; Watkins, C. A.
——; Christopherson, R.; Watkins, C. A.
Reversible inhibition of protein synthesis in lung by halothane 210: 379
Rao, K. K. See Adzamli, I. K.; Lalla-Maharajh, W. V.
Rashid, K. See Al-Tai, W. F.
Rasmussen, J. R. See Grier, T. J.
Ratcliff, A.
——; Hardingham, T.
Cartilage proteoglycan binding region and link protein. Radioimmunoassays and the detection of masked determinants in aggregates. 213: 371
Rathe, J. See Vandermeers, A.
Raunio, V. See Nummi, M.
Ravi, K.
——; Rip, J. W.; Carroll, K. K.
Characterization of dolichol and dolichyl phosphate phosphatase from soya beans (Glycine max). 213: 513
Ray, T. K. See Nandi, J.
——; Nandi, J.
Regulation of the gastric microsomal (hydrogen and potassium)-transporting ATPase system by the endogeneous activator. Effect of phospholipase A_2 treatment. 212: 887
Raynor, R. L. See Qi, D. F.; Schatzman, R. C.
Reaven, E. P. See Azhar, S.
Rebecchi, M. J.
——; Gershengorn, M. C.
Thyroliberin stimulates rapid hydrolysis of phosphatidylinositol 4,5-bisphosphate by a phosphodiesterase in rat mammotropic pituitary cells. Evidence for an early calcium-independent action. 216: 287
Reboul, A. See Bensa, J. C.
Rector, W. D. See Wu, N. C.
Reddy, E. P. See Reddy, E. S. P.
Reddy, E. S. P.
——; Das, M. R.; Reddy, E. P.; Bhargava, P. M.
Inhibition of reverse transcriptases by seminalplasmin. 209: 183
Reddy, J. K. See Chatterjee, B.; Fahl, W. E.
Reddy, M. K. See Fahl, W. E.
——; Rabinowitz, M.; Zak, R.
Stringent requirement for calcium in the removal of Z-lines and α-actinin from isolated myofibrils by calcium-activated neutral proteinase. 209: 635
Reeds, P. J. See Palmer, R. M.; Smith, R. H.
Rees, H. H. See Isaac, R. E.
Regan, D. L. See Curtain, C. C.
Reich, E. See Waller, E. K.
Reid, R. A. See Moody, A. J.
Reinauer, H. See Eckel, J.
Reiner, E. See Cain, K.
Reinhart, P. H. See Taylor, W. M.
——; Taylor, W. M.; Bygrave, F. L.
The effect of ionophore A 23187 on calcium ion fluxes and α-adrenergic agonist action in perfused rat liver. 214: 405
Relton, J. M.
——; Gee, N. S.; Matsas, R.; Turner, A. J.; Kenny, A. J.
Purification of endopeptidase-24.11 ('enkephalinase') from pig brain by immunoadsorbent chromatography. 215: 519

Remesy, C. See Fafournoux, P.
Rennie, M. J.
——; Idstroem, J. P.; Mann, G. E.; Schersten, T.; Bylund-Fellenius, A. C.
A paired-trace dilution method for characterizing membrane transport in the perfused rat hindlimb. Effects of insulin, feeding and fasting on the kinetics of sugar transport. 214: 737
Renold, A. E. See Praz, G. A.
Reynolds, J. J. See Cawston, T. E.; Galloway, W. A.
Reynolds, R. A. See Foreman, J. W.
Ricchelli, F. See Genov, N.
Richardson, A. See Hardwick, J. P.
Riches, D. W. H.
——; Watkins, J. L.; Stanworth, D. R.
Biochemical differences in the mechanism of macrophage lysosomal exocytosis initiated by zymosan particles and weak bases. 212: 869
Ricquier, D.
——; Barlet, J. P.; Garel, J. M.; Combes-George, M.; Dubois, M. P.
An immunological study of the uncoupling protein of brown adipose tissue mitochondria. 210: 859
Riddell, F. G. See Brophy, P. J.
Rideout, J. M. See Lim, C. K.; Wright, D. J.
Rider, C. C. See Corrigan, A. P.
Rider, M. H.
——; Saggerson, E. D.
Regulation by noradrenaline of the mitochondrial and microsomal forms of glycerol phosphate acyltransferase in rat adipocytes. 214: 235
A trypsin-sensitive, heat-labile, N-ethylmaleimide-sensitive factor in adipocyte post-microsomal supernatant which affects the assay of adipocyte glycerol phosphate acyltransferase activities. 214: 247
Ridgway, G. D. See Bayliss, M. T.
Ridgwell, K.
——; Roberts, S. J.; Tanner, M. J. A.; Anstee, D. J.
Absence of two membrane proteins containing extracellular thiol groups in Rh_{null} human erythrocytes. 213: 267
——; Tanner, M. J. A.; Anstee, D. J.
The Wr^b antigen, a receptor for Plasmodium falciparum malaria, is located on a helical region of the major membrane sialoglycoprotein of human red blood cells. 209: 273
Riley, P. A. See Wharton, S. A.
Rinninger, F. See Kirsch, D. M.
Rip, J. W. See Ravi, K.
Ripoll, H. See Roch, A. M.
Risteli, J. See Odermatt, E.
Robaire, B. See Scheer, H.
Robberecht, P. See Asselin, J.
Robert, L. See Moczar, M.
Roberts, A. F. C. See Vina, J.
Roberts, G. C. K. See Thomas, R. M.
Roberts, G. P.
——; Jenner, L.
Glycoproteins and glycosaminoglycans synthesized by human keratinocytes in culture. Their role in cell-substratum adhesion. 212: 355
Roberts, M. L.
——; Butcher, F. R.
The involvement of protein phosphorylation in stimulus-secretion coupling in the mouse exocrine pancreas. 210: 353
Roberts, S. J. See Ridgwell, K.
Robertson, J. P.
——; Faulkner, A.; Vernon, R. G.
Glucose metabolism and its regulation in pieces of perirenal adipose tissue from fetal lambs. 210: 677
Robins, S. P.
Crosslinking of collagen. Isolation, structural characterization and glycosylation of pyridinoline. 215: 167
——; Duncan, A.
Crosslinking of collagen. Location of pyridinoline in bovine articular cartilage at two sites of the molecule. 215: 175
Robinson, D. See Khalfan, H.; Wild, J.
Robinson, M. N.
——; Boswell, A. P.; Huang, Z. X.; Eley, C. G. S.; Moore, G. R.
The conformation of eukaryotic cytochrome c around residues 39, 57, 59 and 74. 213: 687
Robinson, M. S.
——; Danson, M. J.; Weitzman, P. D. J.
Citrate synthase from a gram-positive bacterium. Purification and characterization of the Bacillus megaterium enzyme. 213: 53
Roch, A. M.
——; Quash, G.; Ripoll, H.; Mardon, M.
Differences in polyamine availability and insertion into fibronectins released from normal and transformed cells. 210: 137
Roeder, L. M. See Tildon, J. T.
Roehr, M. See Habison, A.
Rofe, A. M.
——; Williamson, D. H.
Metabolic effects of vasopressin infusion in the starved rat. Reversal of ketonemia. 212: 231
Mechanism for the antilipolytic action of vasopressin in the starved rat. 212: 899
Roff, C. F.
——; Rosevear, P. R.; Wang, J. L.; Barker, R.
Identification of carbohydrate-binding proteins from mouse and human fibroblasts. 211: 625
Roguin, L. P. See Bonifacino, J. S.
Rogulski, J. See Strzelecki, T.
Roisen, F. J. See Kirschke, H.
Rome, L. H. See Campbell, C. H.
Rorsman, P.
——; Hellman, B.
The interaction between manganese and calcium fluxes in pancreatic β-cells. 210: 307
Rose, K. See Burgess, A. I.; Wallace, C. J. A.
——; De Pury, H.; Offord, R. E.
Rapid preparation of human insulin and insulin analogs in high yield by enzyme-assisted semisynthesis. 211: 671
——; Simona, M. G.; Offord, R. E.
Amino acid sequence determination by GLC-mass spectrometry of permethylated peptides. Optimization of the formation of chemical derivatives at the 2-10-nmol level. 215: 261
——; Simona, M. G.; Offord, R. E.; Prior, C. P.; Otto, B.; Thatcher, D. R.
A new mass-spectrometric C-terminal sequencing technique finds a similarity between γ-interferon and α_2-interferon and identifies a proteolytically clipped γ-interferon that retains full antiviral activity. 215: 273
Rose, M. E. See Isaac, R. E.
Rosevear, P. R. See Roff, C. F.
Rossi, C. A. See Barbieri, L.
Rostas, J. A. P.
——; Shevenan, T. A.; Sinclair, C. M.; Jeffrey, P. L.
The purification and characterization of a Thy-1-like glycoprotein from chicken brain. 213: 143
Roth, K. S. See Medow, M. S.
Rotilio, G. See Morpurgo, L.
Roughan, P. G. See Gardiner, S. E.
Roughley, P. J. See Mort, J. S.
Rowe, A. J. See Harding, S. E.
Roy, A. K. See Chatterjee, B.
Rubin, R. P. See Putney, J. W. Jr.
Ruh, T. S.
——; Spelsberg, T. C.
Acceptor sites for the estrogen receptor in hen oviduct chromatin. 210: 905
Russell, N. J. See Foot, M.
Russell, S. M.
——; Mayer, R. J.
Degradation of transplanted rat

liver mitochondrial-outer-membrane proteins in hepatoma cells. 216: 163
Rusznak, I. See Trezl, L.

Sabourault, D. See Bauche, F.
Saceda, M. See Sener, A.
Sachar, R. C. See Bhargava, R.
Sackmann, E. See Xu, Y. H.
Sadler, P. J. See Nicholson, J. K.
Saez, G. T. See Vina, J.
Sagara, J.
——; Nagata, K.; Ichikawa, Y.
Phosphorylation of the myosin heavy chain. Its effect on actin-activated magnesium ATPase in leukemic myelolasts. 214: 839
Saggerson, E. D. See Rider, M. H.
——; Carpenter, C. A.
The effect of malonyl-CoA on overt and latent carnitine acyltransferase activities in rat liver and adipocyte mitochondria. 210: 591
Sahib, M. K. See Ali, M.; Mujoo, K.
Saidi, F. See Hobkirk, R.
Saison, M.
——; Verlinden, J.; Van Leuven, F.; Cassiman, J. J.; Van den Berghe, H.
Identification of cell surface dipeptidylpeptidase IV in human fibroblasts. 216: 177
Sakai, H. See Okamoto, Y.
——; Hino, Y.; Minakami, S.
Three immunoidentical cytochromes P-450 from liver microsomes of phenobarbital-treated rats. 215: 83
Saklatvala, J. See Pilsworth, L. M. C.
——; Curry, V. A.; Sarsfield, S. J.
Purification to homogeneity of pig leukocyte catabolin, a protein that causes cartilage resorption in vitro. 215: 385
——; Sarsfield, S. J.; Pilsworth, L. M. C.
Characterization of proteins from human synovium and mononuclear leukocytes that induce resorption of cartilage proteoglycan in vitro. 209: 337
Salhany, J. M. See Pieper, G. M.
Salih, E. See Brocklehurst, K.
——; Brocklehurst, K.
Investigation of the catalytic site of actinidin by using benzofuroxan as a reactivity probe with selectivity for the thiolate–imidazolium ion-pair systems of cysteine proteinases. Evidence that the reaction of the ion-pair of actinidin (pK_I3.0, pK_{II}9.6) is modulated by the state of ionization of a group associated with a molecular pK_a of 5.5. 213: 713
Salonen, E. M. See Vartio, T.
Salter, D. N. See Blakeborough, P.
Samson, M. See Auberger, P.
Sanchez, A.
——; Nebreda, A. R.; Villanueva, J. R.; Villa, T. G.
Postsecretional modification of exo-1,3-β-D-glucanases from Saccharomyces cerevisiae. 215: 471
Sanderson, P. N.
——; Nieduszynski, I. A.; Huckerby, T. N.
Very-high-field NMR studies of bovine lung heparan sulfate oligosaccharides produced by nitrous acid deaminative cleavage. Carbon-13 NMR study of methylene resonances: degree and positions of C-6 sulfation. 211: 677
Sandy, J. D. See Galloway, W. A.; Plaas, A. H. K.
Sankaran, K.
——; Sivakami, S.; Radhakrishnan, A. N.; Pandit, M. W.
Studies on the size and shape of rabbit intestinal glucoamylase–maltase complex. 213: 719
Sarkar, B. See Laussac, J. P.
Sarsfield, S. J. See Saklatvala, J.
Sarti, P. See Jones, G. D.
——; Colosimo, A.; Brunori, M.; Wilson, M. T.; Antonini, E.
Kinetic studies on cytochrome c oxidase inserted into liposomal vesicles. Effect of ionophores. 209: 81
Sasak, W.
——; Quaroni, A.; Herscovics, A.
Changes in cell-surface fucose-containing glycopeptides and adhesion of cultured intestinal epithelial cells as a function of cell density. 211: 75
Sasaki, T.
——; Tanaka, T.; Nakagawa, S.; Kainuma, K.
Purification and properties of Cellvibrio gilvus cellobiose phosphorylase. 209: 803
Sassa, S. See De Verneuil, H.
Satabin, P. See Ferre, P.
Sato, H.
——; Kashiwamata, S.
Interaction of bilirubin with human erythrocyte membranes. 210: 489
Sato, J. See Okamoto, Y.
Sawyer, W. H.
——; Hill, J. S.; Howlett, G. J.; Wiley, J. S.
Hereditary spherocytosis of man. Defective cytoskeletal interactions in the erythrocyte membrane. 211: 349
Sayers, C. A. See Anastasi, A.

Schadewaldt, P.
——; Muench, U.; Staib, W.
Evidence for the compartmentation of pyruvate metabolism in perfused rat skeletal muscle 216: 761
Schatzman, R. C. See Qi, D. F.
——; Raynor, R. L.; Fritz, R. B.; Kuo, J. F.
Purification to homogeneity, characterization, and monoclonal antibodies of phospholipid-sensitive calcium-dependent protein kinase from spleen. 209: 435
Scheek, L. M. See Van Berkel, T. J. C.
Scheer, H.
——; Robaire, B.
Solubilization and partial characterization of rat epididymal Δ^4-steroid 5α-reductase (cholestenone 5α-reductase). 211: 65
Scheid, C. R. See Honeyman, T. W.
Schersten, T. See Rennie, M. J.
Schibeci, A. See Henry, R. J.
Schimmel, R. J. See Honeyman, T. W.
——; Honeyman, T. W.; McMahon, K. K.
Phosphatidic acid and phosphatidylinositol labeling in adipose tissue. The role of endogenously formed adenosine. 212: 499
Schleuning, W. D. See Waller, E. K.
Schneider, K.
——; Pinkwart, M.; Jochim, K.
Purification of hydrogenases by affinity chromatography on Procion Red-agarose. 213: 391
Schofield, P. J. See O'Brien, M. M.
Scholem, R. D.
——; Brown, G. K.
Metabolism of malonic semialdehyde in man. 216: 81
Schor, S. L. See Gallagher, J. T.; Gibson, G. J.
Schrama, L. See Akkerman, J. W. N.
Schrey, M. P.
——; Montague, W.
Phosphatidylinositol hydrolysis in isolated guinea-pig islets of Langerhans. 216: 433
Schuber, F. See Muller, H. M.
Schubert Prinz, R. See Gloessl, J.
Schuettler, A. See Tatnell, M. A.
Schulman, J. D. See Gahl, W. A.
Schultz, D. See MacIntyre, S. S.
Schwalm, F. See Hardwick, J. P.
Scislowski, P. W. D.
——; Zolnierowicz, S.; Zelewski, L.
Subcellular distribution of isocitrate dehydrogenase in early

and term human placenta. 214: 339
Scott, A. I. See Malthouse, J. P. G.
Scott, C. R. See Osborne, W. R. A.
Scott, G. K. See Geddes, R.
Scott, J. E.
——; Qian, R. G.; Henkel, W.; Glanville, R. W.
An Ehrlich chromogen in collagen crosslinks. 209: 263
Scott, R. I.
——; Lloyd, D.
Photochemical action spectra indicate that cytochrome a/a_3 is the predominant hemoprotein terminal oxidase in Acanthamoeba castellanii. 210: 721
Scragg, I.
——; Pollard, M.; Burchell, B.; Dutton, G. J.
The temporary postnatal decline in glucuronidation of certain phenols by rat liver. 214: 533
Scriver, C. R. See Montgomery, J. A.
Scudder, P. See Childs, R. A.
——; Uemura, K.; Dolby, J.; Fukuda, M. N.; Feizi, T.
Isolation and characterization of an endo-β-galactosidase from Bacteroides fragilis. 213: 485
Sculley, M. J. See Tellam, R. L.
Searle, A. J. F.
——; Willson, R. L.
Stimulation of microsomal lipid peroxidation by iron and cysteine. Characterization and the role of free radicals. 212: 549
Sedlmeier, D.
——; Dieberg, G.
Crayfish abdominal muscle adenylate cyclase. Studies on the stimulation by a calcium-binding protein. 211: 319
Seehra, J. S.
——; Jordan, P. M.; Akhtar, M.
Anaerobic and aerobic coproporphyrinogen III oxidases of Rhodopseudomonas spheroides. Mechanism and stereochemistry of vinyl group formation. 209: 709
Seely, J. E.
——; Pegg, A. E.
Effect of 1,3-diaminopropane on ornithine decarboxylase enzyme protein in thioacetamide-treated rat liver. 216: 701
Segal, A. W. See Cross, A. R.
——; Garcia, R. C.; Harper, A. M.; Banga, J. P.
Iodination by stimulated human neutrophils. Studies on its stoichiometry, subcellular localization, and relevance to microbial killing. 210: 215
Segal, S. See Foreman, J. W.; Medow, M. S.
Seglen, P. O. See Solheim, A. E.
Sekeris, C. E. See Grote, H.
Sekiguchi, K. See Vuento, M.
Seljelid, R. See Kolset, S. O.
Sener, A. See Malaisse, W. J.
——; Welsh, M.; Lebrun, P.; Garcia-Morales, P.; Saceda, M.; Malaisse-Lagae, F.; Herchuelz, A.; Valverde, I.; Hellerstroem, C.; Malaisse, W. J.
Mechanism of 3-phenylpyruvate-induced insulin release. Secretory, ionic, and oxidative aspects. 210: 913
Senior, A. E. See Cox, G. B.; Fimmel, A. L.; Hamlyn, J. M.; Jans, D. A.; Wise, J. G.
——; Langman, L.; Cox, G. B.; Gibson, F.
Oxidative phosphorylation in Escherichia coli. Characterization of mutant strains in which F_1-ATPase contains abnormal β-subunits. 210: 395
Serafini-Cessi, F.
——; Dall'olio, F.
Guinea pig kidney β-N-acetylgalactosaminyltransferase towards Tamm-Horsfall glycoprotein. Requirement of sialic acid in the acceptor for transferase activity. 215: 483
Setchenska, M.
——; Arnstein, H. R. V.
Characteristics of the β-adrenergic adenylate cyclase system of developing rabbit bone-marrow erythroblasts. 210: 559
Sewell, E. T. See Heffelfinger, S. C.
Shaklai, N. See Margalit, R.
Shankaran, P. See Jones, C. S.
Shannon, J. D. See Bond, J. S.
Sharma, R. J. See Lutaya, G.
Sharp, J. A.
——; Edwards, M. R.
Initial-velocity kinetics of succinyl-coenzyme A-3-oxo acid coenzyme A-transferase from sheep kidney. 213: 179
Shaw, E. See LaBombardi, V. J.
Shaw, W. V. See Bennett, A. D.
Shedlofsky, S. I.
——; Bonkowsky, H. L.; Sinclair, P. R.; Sinclair, J. F.; Bement, W. J.; Pomeroy, J. S.
Iron loading of cultured hepatocytes. Effect of iron on 5-aminolevulinate synthase is independent of lipid peroxidation. 212: 321
Sheehan, J. See Uldbjerg, N.
Sheehan, J. K. See Carlstedt, I.; Lyon, M.
Sheehan, T. G.
——; Tully, E. R.
Purine biosynthesis de novo in rat skeletal muscle. 216: 605
Shephard, E. A. See Phillips, I. R.
——; Phillips, I. R.; Bayney, R. M.; Pike, S. F.; Rabin, B. R.
Quantification of NADPH:cytochrome P-450 reductase in liver microsomes by a specific radioimmunoassay technique. 211: 333
Sheppard, D. M. See Elder, G. H.
Shevenan, T. A. See Rostas, J. A. P.
Shidoji, Y. See Creek, K. E.
——; Silverman-Jones, C. S.; De Luca, L. M.
Retinyl phosphate mannose synthesis in rat liver membranes. Phospholipase sensitivity and phospholipid requirement. 216: 727
——; Silverman-Jones, C.; Noji, S.; De Luca, L. M.
Interactions between retinyl phosphate and bivalent cations. 214: 719
Shinkai, H. See Nakamura, T.
——; Nakamura, T.; Matsunaga, E.
Evidence for the presence and structure of asparagine-linked oligosaccharide units in the core protein of proteodermatan sulfate. 213: 297
Shopova, M. See Genov, N.
Shub, M. D.
——; Pang, K. Y.; Swann, D. A.; Walker, W. A.
Age-related changes in chemical composition and physical properties of mucus glycoproteins from rat small intestine. 215: 405
Siddle, K. See Jackson, A. P.
Sidebothom, R. See Abraham, D.
Sies, H. See Cadenas, E.
——; Graf, P.; Crane, D.
Decreased flux through pyruvate dehydrogenase during calcium ion movements induced by vasopressin, α-adrenergic agonists and the ionophore A23187 in perfused rat liver. 212: 271
Silverman-Jones, C. See Shidoji, Y.
Silverman-Jones, C. S. See Creek, K. E.; Shidoji, Y.
Silvestrini, M. C. See Brunori, M.
Sim, E.
——; Sim, R. B.
Enzymic assay of C3b receptor on intact cells and solubilized cells. 210: 567
Sim, R. B. See Sim, E.
Simona, M. G. See Rose, K.
Simson, D. L. See Smith, S. A.
Sinclair, C. M. See Rostas, J. A. P.
Sinclair, J. F. See Shedlofsky, S. I.
Sinclair, P. R. See Shedlofsky, S. I.
Sinnott, M. L. See Marshall, P. J.
Sistare, F. D. See Jensen, C. B.

Sivakami, S. See Sankaran, K.
Sivarama Sastry, K. See Maruthi Mohan, P.
Sjoeholm, I. See Nilsson, T.
Sjoestroem, H. See Danielsen, E. M.
Sjostrom, H. See Danielsen, E. M.
Skilleter, D. N. See Cain, K.
——; Price, R. J.; Legg, R. F.
Specific G_1–S phase cell cycle block by beryllium as demonstrated by cytofluorometric analysis. 216: 773
Skinner, M. K.
——; Griswold, M. D.
Fluorographic detection of radioactivity in polyacrylamide gels with 2,5-diphenyloxazole in acetic acid and its comparison with existing procedures. 209: 281
Slakey, L. L. See Pearson, J. D.
Slater, A. M. See Denton, J.
Slatyer, B.
——; Daday, A.; Smith, G. D.
The effects of acetaldehyde on nitrogenase, hydrogenase and photosynthesis in the cyanobacterium Anabaena cylindrica. 212: 755
Sleigh, R. W. See Burley, R. W.
Slikker, W. Jr. See Leakey, J. E. A.
Sliwkowski, M. B. See Sliwkowski, M. X.
Sliwkowski, M. X.
——; Sliwkowski, M. B.; Horton, H. R.; Swaisgood, H. E.
Resolution of sulfhydryl oxidase from γ-glutamyltransferase in bovine milk by covalent chromatography on cysteinylsuccinamidopropyl-glass. 209: 731
Sly, W. S. See Creek, K. E.
Smal, J. See Closset, J.
Smith, A.
——; Neuschatz, T.
Hematoporphyrin and O,O'-diacetylhematoporphyrin binding by serum and cellular proteins. Implications for the clearance of these photochemotherapeutic agents by cells. 214: 503
Smith, A. G. See White, I. N. H.
——; Francis, J. E.
Synergism of iron and hexachlorobenzene inhibits hepatic uroporphyrinogen decarboxylase in inbred mice. 214: 909
Smith, A. I. See Mantle, D.
Smith, B. E. See Hawkes, T. R.; McLean, P. A.
——; Lowe, D. J.; Chen, G. X.; O'Donnell, M. J.; Hawkes, T. R.
Evidence on intramolecular electron transfer in the molybdenum–iron protein of nitrogenase from Klebsiella pneumoniae from rapid–freeze electron–paramagnetic–resonance studies of its oxidation by ferricyanide. 209: 207
Smith, B. J. See Harris, M. R.
Smith, D. D. S.
——; Coggins, J. R.
Isolation of a bifunctional domain from the pentafunctional arom enzyme complex of Neurospora crassa. 213: 405
Smith, D. M.
——; Sugden, P. H.
Differential rates of protein synthesis in vitro and RNA contents in rat heart ventricular and atrial muscle. 214: 497
Stimulation of left-atrial protein-synthesis rates by increased left-atrial filling pressures in the perfused working rat heart in vitro. 216: 537
——; Sugden, P. M.
Effect of insulin and lack of effect of workload and hypoxia on protein degradation in the perfused working rat heart. 210: 55
Smith, G. A. See Hesketh, T. R.; Moore, J. P.
Smith, G. D. See Slatyer, B.
Smith, R. H. See Palmer, R. M.
——; Palmer, R. M.; Reeds, P. J.
Protein synthesis in isolated rabbit forelimb muscles. The possible role of metabolites of arachidonic acid in the response to intermittent stretching. 214: 153
Smith, S.
——; Pasco, D.; Nandi, S.
Biosynthesis of medium-chain fatty acids by mammary epithelial cells from virgin rats. 212: 155
Smith, S. A.
——; Cawthorne, M. A.; Levy, A. L.; Simson, D. L.
Defective activation by glucose of hepatic glycogen synthesis in the obese hyperglycemic mouse. 216: 491
Smolenski, K. A.
——; Avery, N. C.; Light, N. D.
A new rapid method for the identification of reducible collagen crosslinks in small tissue samples. 213: 525
Snary, D. See Ferguson, M. A. J.
Sohal, R. S. See Allen, R. G.
Solheim, A. E.
——; Seglen, P. O.
Cellular and lysosomal uptake of methylamine in isolated rat hepatocytes. 210: 929
Sols, A. See Krebs, H. A.
Solum, N. O. See Gogstad, G.
Somermeyer, M. G.
——; Knauss, T. C.; Weinberg, J. M.; Humes, H. D.
Characterization of calcium transport in rat renal brush-border membranes and its modulation by phosphatidic acid. 214: 37
Somjen, D.
——; Binderman, I.; Weisman, Y.
The effects of 24R,25-dihydroxycholecalciferol and of 1α,25-dihydroxycholecalciferol on ornithine decarboxylase activity and on DNA synthesis in the epiphysis and diaphysis of rat bone and in the duodenum. 214: 293
Sommarin, Y. See Paulsson, M.
——; Heinegard, D.
Specific interaction between cartilage proteoglycans and hyaluronic acid at the chondrocyte cell surface. 214: 777
Sonksen, P. H. See Baron, M. D.
Sonnino, S. See Ghidoni, R.
Souness, J. E.
——; Stouffer, J. E.; Chagoya de Sanchez, V.
The effect of selenium–deficiency on rat fat-cell glucose oxidation. 214: 471
Soutar, A. K. See Knight, B. L.
Soute, B. A. M. See De Metz, M.
Sparkes, M. J. See Adams, S. R.
Sparrow, M. P. See Bates, P. C.
Spaulding, S. W. See Cooper, E.
Speirs, A.
——; Moore, C. H.; Boxer, D. H.; Garland, P. B.
Segmental motion and rotational diffusion of the calcium–translocating adenosine triphosphatase of sarcoplasmic reticulum, measured by time-resolved phosphorescence depolarization. 213: 67
Spelsberg, T. C. See Ruh, T. S.
Spencer, N. See Karmali, A.
Spielberg, S. See Head, J. F.
Spring, F. A.
——; Anstee, D. J.
Lectin-binding components of normal granulocytes and leukemic myeloid cells. 213: 661
Squires, E. J.
——; Brosnan, J. T.
Measurements of the turnover rate of glutamine in normal and acidotic rats. 210: 277
Srivastava, P. N. See Rahi, H.
Sriwatanakul, K. See McCormick, K.
Staehelin, M. See Hertel, C.
Stahli, C. See Vartio, T.
Staib, W. See Schadewaldt, P.
Stalmans, W. See Bollen, M.; Mvumbi, L.
Stankiewicz, A. J.
Direct deamination of AMP, ADP, ATP and NADH by nonspecific adenylate deaminase in the foot muscle of the snail Helix pomatia. 215: 39
Stanley, C. J. See Packman, L. C.
Stanley, K. K. See Luzio, J. P.
Stansfield, D. A. See Murphy, G. J.
Stanworth, D. R. See Riches, D. W. H.
Steare, S. E. See Sugden, M. C.

Steenkamp, D. J. See Husain, M.; Kasprzak, A. A.
Stein, J. M.
——; Martin, B. R.
The role of GTP in prostaglandin E_1 stimulation of adenylate cyclase in platelet membranes. 214: 231
Steinfelder, H. J.
——; Joost, H. G.
Reversible reduction of insulin receptor affinity by ATP depletion in rat adipocytes. 214: 203
Stephens, T. W.
——; Cook, G. A.; Harris, R. A.
Effect of pH on malonyl-CoA inhibition of carnitine palmitoyltransferase I. 212: 521
Stern, A. See Trotta, R. J.
Stevens, E. See Price, N. C.
Stevens, T. M. See Ades, I. Z.
Stevens, W. A. See Stirpe, F.
Stewart, A. C.
——; Larkum, A. W. D.
Photosynthetic electron transport in thylakoid preparations from two marine red algae (Rhodophyta). 210: 583
Stewart, G. S. A. B.
——; Ellar, D. J.
Precursor processing during the maturation of a spore-coat protein in Bacillus megaterium KM. 210: 411
Stewart, J. C. See Parry, J. B.
Stigbrand, T. I. See Carlsson, S. R.
Stirewalt, W. S.
——; Low, R. B.
Effects of insulin in vitro on protein turnover in rat epitrochlearis muscle. 210: 323
Stirpe, F. See Barbieri, L.
——; Gasperi-Campani, A.; Barbieri, L.; Falasca, A.; Abbondanza, A.; Stevens, W. A.
Ribosome-inactivating proteins from the seeds of Saponaria officinalis L. (soapwort), of Agrostemma githago L. (corn cockle) and of Asparagus officinalis L. (asparagus), and from the latex of Hura crepitans L. (sandbox tree). 216: 617
Stokes, G. B. See Jones, A. J.
Stone, B. A. See Henry, R. J.
Storroe, I.
——; McFadden, B. A.
Ribulose diphosphate carboxylase/oxygenase in toluene-permeabilized Rhodospirillum rubrum. 212: 45
Stouffer, J. E. See Souness, J. E.
Stowell, L.
——; Moerland, J.
The influence of some methodological factors on measurement of tryptophan oxygenase activities in crude homogenates of rat liver. 209: 831
Strange, R. C.
——; Hirrell, P. H.; Kitley, G. A.; Hopkinson, D. A.; Cotton, W.
Erythrocyte glutathione S-transferase. Electrophoretic identification of two enzyme forms. 215: 213
Strauss, A. J. See Praz, G. A.
Strewler, G. J.
——; Danello, M. A.; Manganiello, V. C.; Vaughan, M.
Calcium-independent cyclic GMP phosphodiesterases from rat liver and HTC hepatoma cells. 213: 379
Strohsnitter, W. See Honeyman, T. W.
Strolin Benedetti, M. See Tipton, K. F.
Strzelecki, T.
——; Rogulski, J.; Angielski, S.
The purine nucleotide cycle and ammonia formation from glutamine by rat kidney slices. 212: 705
Stubbs, M. See Krebs, H. A.
Suda, T. See Yamada, M.
Sugden, M. C. See Palmer, T. N.
——; Steare, S. E.; Watts, D. I.; Palmer, T. N.
Interactions between insulin and thyroid hormone in the control of lipogenesis. 210: 937
——; Watts, D. I.
Stimulation of oleate-1-^{14}C oxidation to carbon dioxide-^{14}C in isolated rat hepatocytes by the catecholamines, vasopressin, and angiotensin. A possible mechanism of action. 212: 85
Sugden, P. H. See Smith, D. M.
Sugden, P. M. See Smith, D. M.
Sullivan, M. H. F.
——; Cooke, B. A.
Stimulation of cholesterol side-chain cleavage by a luteinizing hormone-releasing hormone (luliberin) agonist (ICI 118630) in rat Leydig cells. 216: 747
Sullivan, S. G. See Trotta, R. J.
Sundewall, A. C. See Mannervik, B.
Sunter, D. C. See Anastasi, A.
Sur, P.
——; Doig, M. T.; Priest, D. G.
Response of methylenetetrahydrofolate levels to methotrexate in Krebs ascites cells. 216: 295
Surholt, B.
——; Newsholme, E. A.
The rate of substrate cycling between glucose and glucose 6-phosphate in muscle and fat-body of the hawk moth (Acherontia atropos) at rest and during flight. 210: 49
Sussman, H. H. See Behrens, C. M.
Sussman, K. E.
——; Pollard, H. B.; Leitner, J. W.; Nesher, R.; Adler, J.; Cerasi, E.
Differential control of insulin secretion and somatostatin-receptor recruitment in isolated pancreatic islets. 214: 225
Suyemitsu, T. See Ohtake, H.
Suzuki, N. See Okuda, S.
Suzuki, Y. See Kikuchi, Y.
Swaisgood, H. E. See Sliwkowski, M. X.
Swann, D. A. See Shub, M. D.
Swaroop, A.
——; Patole, M. S.; Puranam, R. S.; Ramasarma, T.
Noradrenaline treatment of rats stimulates hydrogen peroxide generation in liver mitochondria. 214: 745
Sykes, A. G. See Adzamli, I. K.
Sykes, J. E. C.
——; Lowry, P. J.
Purification of a high-molecular-weight somatoliberin (growth-hormone-releasing factor) from pig hypothalami. 209: 643
Synouri-Vrettakou, S.
——; Mitropoulos, K. A.
On the mechanism of the modulation in vitro of acyl-CoA:cholesterol acyltransferase by progesterone. 215: 191
Szarvas, T. See Trezl, L.
Szelke, M. See McIntyre, G. D.
Szende, B. See Trezl, L.

Taguchi, H. See Armarego, W. L. F.
Takabe, T. See Yokoi, H.
Takacs, B. See Vartio, T.
Takahashi, N. See Yamada, M.
Takeshige, K. See Wakeyama, H.
Takeshita, M.
——; Tamura, M.; Yubisui, T.
Microsomal electron-transport reductase activities and fatty acid elongation in rat brain. Developmental changes, regional distribution and comparison with liver activity. 214: 751
Takigawa, T. See Ibata, K.
Tamaoki, T. See Janzen, R. G.
Tamiya, N. See Guinea, M. L.; Kikuchi, Y.
——; Maeda, N.; Cogger, H. G.
Neurotoxins from the venoms of the sea snakes Hydrophis ornatus and Hydrophis lapemoides. 213: 31
Tamura, M. See Takeshita, M.
Tanaka, T. See Sasaki, T.
Tanaka, Y. See Ibata, K.
——; DeLuca, H. F.
Stimulation of 1,25-dihydroxyvitamin D_3 production by 1,25-dihydroxyvitamin D_3 in the hypocalcemic rat. 214: 893
Tanioka, H. See Fujimoto, Y.
Tanner, M. J. A. See Brock, C. J.; Ridgwell, K.

Tartakoff, A. M.
Mutations that influence the secretory path in animal cells. 216: 1
Tate, C. A.
——; Bick, R. J.; Myers, T. D.; Pitts, B. J. R.; Van Winkle, W. B.; Entman, M. L.
Alteration of sarcoplasmic reticulum after denervation of chicken pectoralis muscle. 210: 339
Tatham, A. S.
——; Hider, R. C.; Drake, A. F.
The effect of counterions on melittin aggregation. 211: 683
Tatnell, M. A.
——; Jones, R. H.; Willey, K. P.; Schuettler, A.; Brandenburg, D.
Evidence concerning the mechanism of insulin–receptor interaction and the structure of the insulin receptor from biological properties of covalently linked insulin dimers. 216: 687
Taylor, C. A. Jr. See Pittman, R. C.
Taylor, C. F.
——; Britton, P.; Van Heyningen, S.
Similarities in the heavy and light chains of tetanus toxin suggested by their amino acid compositions. 209: 897
Taylor, D. J.
——; Yoffe, J. R.; Woolley, D. E.
Histamine H_2 receptors on fetal–bovine articular chondrocytes. 212: 517
Taylor, E. See Vernon, R. G.
Taylor, J. A. See Geddes, R.
Taylor, K. W. See Biden, T. J.
Taylor, W. M. See Reinhart, P. H.
——; Reinhart, P. H.; Bygrave, F. L.
S..mulation by α–adrenergic agonists of calcium fluxes, mitochondrial oxidation and gluconeogenesis in perfused rat liver. 212: 555
Taylorson, C. J. See Adams, A.
Teichner, A. See Londei, P.
Tellam, R. L.
——; Sculley, M. J.; Nichol, L. W.; Wills, P. R.
The influence of poly(ethylene glycol) 6000 on the properties of skeletal–muscle actin. 213: 651
Termine, J. D. See Fincham, A. G.
Terra, W. R. See Ferreira, C.
Tettamanti, G. See Ghidoni, R.
Thatcher, D. R. See Rose, K.
Then, R. See Arisawa, M.
Thirunavukkarasu, C. See Meenakshi, S.
Thomas, A. P. See Quinlan, P. T.
Thomas, R. M.
——; Feeney, J.; Nicholson, R. B.; Pain, R. H.; Roberts, G. C. K.
Identification by NMR spectroscopy of a stable intermediate structure in the unfolding of staphylococcal β–lactamase. 215: 525
Thompson, A. C. See Foote, N.
Thompson, R. J. See Jackson, A. P.
Thomson, A. J. See Greenwood, C.; Hill, B. C.
Thonard, J. C. See Bartold, P. M.
Thorneley, R. N. F.
——; Lowe, D. J.
Nitrogenase of Klebsiella pneumoniae. Kinetics of the dissociation of oxidized iron protein from molybdenum–iron protein: identification of the rate–limiting step for substrate reduction. 215: 393
Thunberg, L. See Denton, J.
Ticha, M. See Guran, A.
Tietze, F. See Gahl, W. A.
Tikhonov, A. N. See Luzikov, V. N.
Tildon, J. T.
——; Merrill, S.; Roeder, L. M.
Differential substrate oxidation by dissociated brain cells and homogenates during development. 216: 21
Timpl, R. See Furthmayr, H.; Odermatt, E.
Ting, H. H.
——; Crabbe, M. J. C.
Bovine lens aldehyde dehydrogenase. Purification and preliminary characterization. 215: 351
Bovine lens aldehyde dehydrogenase. Kinetics and mechanism. 215: 361
Tipton, K. F. See Gitomer, W. L.
——; Fowler, C. J.; McCrodden, J. M.; Strolin Benedetti, M.
The enzyme–activated irreversible inhibition of type–B monoamine oxidase by 3–[4–[(3–chlorophenyl)methoxy]phenyl]–5–[(methylamino)methyl]–2–oxazolidinone methanesulfonate (compound MD 780236) and the enzyme–catalyzed oxidation of this compound as competing reactions. 209: 235
Titheradge, M. A. See Allan, E. H.; Chisholm, A. B.
Todd, J. A.
——; Ellar, D. J.
Identification of penicillin–binding protein 5a of Bacillus megaterium KM as a DD–carboxypeptidase. 214: 653
Tomera, J. F.
——; Kopito, R. R.; Brunengraber, H.
Assessment of the flux of mitochondrial acetyl–CoA in liver and kidney by using the differential production of $^{14}CO_2$ from tracers of (1–^{14}C)– and (2–^{14}C)–labeled 4–methyl–2–oxovalerate. 210: 265
Tooke, N. E. See Hutton, J. C.
Torensma, R.
——; Phillips, J. C.
Oxygen binding by Helix pomatia α–hemocyanin studied by x–ray absorption spectroscopy. 209: 373
Torres, J. C.
——; Behrens, M. I.; Inestrosa, N. C.
Neural 16S acetylcholinesterase is solubilized by heparin. 215: 201
Tosi, L. See Musci, G.
Tovey, J. A. See Elder, G. H.
Townsend, R. R. See Connolly, D. T.
Tranum–Jensen, J. See Bhakdi, S.
Travers, F. See Barman, T. E.
Trayer, I. P. See Moir, A. J. G.
Trayhurn, P. See Fraser, D. R.; Galpin, K. S.; Mercer, S. W.
——; Fraser, D. R.
The influence of GDP on calcium uptake by mitochondria of brown adipose tissue from lean and genetically obese (ob/ob) mice. 214: 171
Treffry, A. See Gutteridge, J. M. C.
Trezl, L.
——; Rusznak, I.; Tyihak, E.; Szarvas, T.; Szende, B.
Spontaneous N←methylation and N←formylation reactions between L–lysine and formaldehyde inhibited by L–ascorbic acid. 214: 289
Trimm, H. H.
——; Jennings, B. R.
Study of hyaluronic acid flexibility by electric birefringence. 213: 671
Trippelvitz, L. A. W. See Van Dijk, W.
Trotta, R. J.
——; Sullivan, S. G.; Stern, A.
Lipid peroxidation and hemoglobin degradation in red blood cells exposed to t–butyl hydroperoxide. The relative roles of heme– and glutathione–dependent decomposition of t–butyl hydroperoxide and membrane lipid hydroperoxides in lipid peroxidation and hemolysis. 212: 759
Truneh, A.
——; Mishal, Z.; Barbet, J.; Machy, P.; Leserman, L. D.
Endocytosis of liposomes bound to cell surface proteins measured by flow cytofluorometry. 214: 189
Tsai, C. S.
——; White, J. H.
Activation of liver alcohol deh=

ydrogenase by glycosylation. 209: 309
Tsai, S. C.
——; Adamik, R.; Manganiello, V. C.; Vaughan, M.
Regulation of activity of purified guanylate cyclase from liver that is unresponsive to nitric oxide. 215: 447
Tubbs, P. K. See Worrall, D. M.
Tuite, M. F. See Perkins, R. E.
Tully, E. R. See Sheehan, T. G.
Turakainen, H.
Altered glycosaminoglycan production in cultured osteogenesis-imperfecta skin fibroblasts. 213: 171
Turner, A. J. See Relton, J. M.
——; Whittle, S. R.
Biochemical dissection of the γ-aminobutyrate synapse. 209: 29
Turner, C.
——; Cary, P. D.; Grego, B.; Hearn, M. T. W.; Chapman, G. E.
A proton-nuclear-magnetic-resonance study of human somatotropin (growth hormone). Assignment and properties of the histidine residues. 213: 107
Turner, P. D. See Bailey, C. J.
Turner, R. S. See Qi, D. F.
Turnham, E.
——; Northcote, D. H.
Changes in the activity of acetyl-CoA carboxylase during rape-seed formation. 212: 223
Turtle, J. R. See Plehwe, W. E.
Tyihak, E. See Trezl, L.
Tyler, N. E. See Bleasdale, J. E.
Tyson, J. J. See Pahlic, M.

Uemura, K. See Childs, R. A.; Scudder, P.
Uldbjerg, N.
——; Malmstroem, A.; Ekman, G.; Sheehan, J.; Ulmsten, U.; Wingerup, L.
Isolation and characterization of dermatan sulfate proteoglycan from human uterine cervix. 209: 497
Ulmsten, U. See Carlstedt, I.; Uldbjerg, N.
Ungar, F. See Conneely, O. M.

Vaheri, A. See Vartio, T.
Vaillant, R. See Husson, A.
Valcarce, C. See Fernandez, E.
Vale, M. G. P.
——; Moreno, A. J. M.; Carvalho, A. P.
Effects of calmodulin antagonists on the active calcium uptake by rat liver mitochondria. 214: 929
Valverde, I. See Sener, A.
Van Berkel, T. J. C.
——; Kruijt, J. K.; Scheek, L. M.; Groot, P. H. E.
Effect of apolipoproteins E and C-III on the interaction of chylomicrons with parenchymal and non-parenchymal cells from rat liver. 216: 71
Van Bezooijen, C. F. A. See Horbach, G. J. M. J.
Van Bueren, J. See Brown, J. G.
Vance, D. E. See Pelech, S. L.
Van Delden, V. See Odermatt, E.
Van den Berghe, H. See Saison, M.
Van den Briel, W. See Van der Mark, F.
Van der Mark, F.
——; Van den Briel, W.; Huisman, H. G.
Phytoferritin is synthesized in vitro as a high-molecular-weight precursor. Studies on the synthesis and the uptake in vitro of the precursors of ferritin and ferredoxin by intact chloroplasts. 214: 943
Vandermeers, A.
——; Vandermeers-Piret, M. C.; Rathe, J.; Christophe, J.
Purification and kinetic properties of two soluble forms of calmodulin-dependent cyclic nucleotide phosphodiesterase from rat pancreas. 211: 341
Vandermeers-Piret, M. C. See Vandermeers, A.
Van de Werve, G. See Assimacopoulos-Jeannet, F.; Hue, L.
——; Assimacopoulos-Jeannet, F.; Jeanrenaud, B.
Altered liver glycogen metabolism in fed genetically obese mice. 216: 273
Van Dijk, W. See Van Rinsum, J.
——; Lasthuis, A. M.; Trippelvitz, L. A. W.; Muilerman, H. G.
Increased glycosylation capacity in regenerating rat liver is paralleled by decreased activities of CMP-N-acetylneuraminate hydrolase and UDP-galactose pyrophosphatase. 214: 1003
Van Heyningen, S. See Taylor, C. F.
Van Hinsbergh, V. See Havekes, L.
Van Hoof, F. See Devos, P.
Van Leuven, F. See Saison, M.
Van Obberghen, E. See Gazzano, H.
Van Renswoude, J. See Klausner, R. D.
Van Rinsum, J. See Ferwerda, W.
——; Van Dijk, W.; Hooghwinkel, G. J. M.; Ferwerda, W.
Subcellular localization and tissue distribution of sialic acid precursor-forming enzymes. 210: 21
Van Schaftingen, E. See Bartrons, R.
Van Veldhoven, P.
——; Debeer, L. J.; Mannaerts, G. P.
Water- and solute-accessible spaces of purified peroxisomes. Evidence that peroxisomes are permeable to NAD+. 210: 685
Van Winkle, W. B. See Tate, C. A.
Varagiannis, E.
——; Kumar, S.
Inhibition of the condensing component of chicken liver fatty acid synthase by iodoacetamide and 5,5'-dithiobis-(2-nitrobenzoic acid). 215: 545
Vartio, T.
——; Salonen, E. M.; De Petro, G.; Barlati, S.; Miggiano, V.; Stahli, C.; Virgallita, G.; Takacs, B.; Vaheri, A.
Monoclonal antibody against the N-terminal end of human plasma fibronectin. 215: 147
Vater, C. A. See Nagase, H.
Vaughan, M. See Strewler, G. J.; Tsai, S. C.
Veerkamp, J. H. See Kempen, H. J. M.
Velebny, V.
——; Kasafirek, E.; Kanta, J.
Desmosine and isodesmosine contents and elastase activity in normal and cirrhotic rat liver. 214: 1023
Venerando, B. See Ghidoni, R.
Venn, G.
——; Mason, R. M.
Biosynthesis and metabolism in vivo of intervertebral disk proteoglycans in the mouse. 215: 217
Venn, M. See Bayliss, M. T.
Verbert, A. See Cecchelli, R.
Verin, A. D. See Gusev, N. B.
Verlinden, J. See Saison, M.
Vermeer, C. See De Metz, M.
Vernon, R. G. See Robertson, J. P.
——; Finley, E.; Taylor, E.
Adenosine and the control of lipolysis in rat adipocytes during pregnancy and lactation. 216: 121
Vessey, D. A.
——; Whitney, J.; Gollan, J. L.
The role of conjugation reactions in enhancing biliary secretion of bile acids. 214: 923
Villa, T. G. See Sanchez, A.
Villanueva, J. R. See Sanchez, A.
Villiers, C. L.
——; Arlaud, G. J.; Colomb, M. G.
Autoactivation of human complement subcomponent C1r involves structural changes reflected in modifications of intrinsic fluorescence, circular dichroism and reactivity with monoclonal antibodies. 215: 369

Vina, J. See Vina, J. R.
——; Saez, G. T.; Wiggins, D.; Roberts, A. F. C.; Hems, R.; Krebs, H. A.
The effect of cysteine oxidation on isolated hepatocytes. 212: 39
Vina, J. R.
——; Puertes, I. R.; Montoro, J. B.; Vina, J.
Effect of starvation and refeeding on amino acid uptake by mammary gland of the lactating rat. Role of ketone bodies. 216: 343
Virgallita, G. See Vartio, T.
Vittozzi, L. See Orlando, A. R.
Vogel, F.
——; Lumper, L.
Fluorescence labeling of NADPH–cytochrome P–450 reductase with the monobromomethyl derivative of syn–9,10–dioxabimane. 215: 159
Voigt, J. See Grote, H.
Von Figura, K. See Gloessl, J.; Hasilik, A.; Imort, M.; Zuehlsdorf, M.
Vora, S. See Davidson, M.
Vuento, M.
——; Sekiguchi, K.; Korkolainen, M.
Identification of fibronectin fragments that bind to carboxy–group–modified proteins. 215: 613

Wadsworth, J. C. See Parker, J. C.
Waelbroeck, M. See Asselin, J.
Waite, M. See Lippiello, P. M.
Wakelam, M. J. O.
Inositol phospholipid metabolism and myoblast fusion. 214: 77
Wakeland, J. R. See Crie, J. S.
Wakeyama, H.
——; Takeshige, K.; Minakami, S.
NADPH–dependent reduction of 2,6–dichlorophenol–indophenol by the phagocytic vesicles of pig polymorphonuclear leukocytes. 210: 577
Waldron, K. W.
——; Brett, C. T.
A glucuronyltransferase involved in glucuronoxylan synthesis in pea (Pisum sativum) epicotyls. 213: 115
Waley, S. G. See Beesley, T.; Bicknell, R.
Kinetic parameters from progress curves of competing substrates. Application to β–lactamases. 211: 511
Walker, A. P.
——; Flint, D. J.
Absence of down–regulation of the insulin receptor by insulin. A possible mechanism of insulin resistance in the rat. 210: 373
Walker, D. A. See Carver, K. A.
Walker, J. E.
——; Walsby, A. E.
Molecular weight of gas–vesicle protein from the planktonic cyanobacterium Anabaena flos–aquae and implications for structure of the vesicle. 209: 809
Walker, W. A. See Shub, M. D.
Wallace, A. V. See Heyworth, C. M.; Wilson, S. R.
Wallace, C. J. A. See Boswell, A. P.
——; Rose, K.
The semisynthesis of analogs of cytochrome c. Modifications of arginine residues 38 and 91. 215: 651
Waller, E. K.
——; Schleuning, W. D.; Reich, E.
Complex formation and inhibition of urokinase by blood plasma proteins. 215: 123
Wals, P. A. See Katz, J.
Walsby, A. E. See Walker, J. E.
Walsh, K. A. J.
——; Daniel, R. M.; Morgan, H. W.
A soluble NADH dehydrogenase (NADH:ferricyanide oxidoreductase) from Thermus aquaticus T351. 209: 427
Wang, J. L. See Roff, C. F.
Ward, J. A.
——; Hunter, C. N.; Jones, O. T. G.
Changes in the cytochrome composition of Rhodopseudomonas sphaeroides grown aerobically, photosynthetically and on dimethyl sulfoxide. 212: 783
Ward, L. D.
——; Winzor, D. J.
Thermodynamic studies of the activation of rabbit muscle lactate dehydrogenase by phosphate. 215: 685
Waring, M. J. See Fox, K. R.
Wartell, S. A. See Watkins, C. A.
——; Nafe, C. K.; Watkins, C. A.; Rannels, D. E.
Identification of specific proteins synthesized by type II pneumocytes in primary culture. 210: 607
Watkins, C. A. See Rannels, D. E.; Wartell, S. A.
——; Wartell, S. A.; Rannels, D. E.
Effect of halothane on metabolism of 5–hydroxytryptamine by rat lungs perfused in situ. 210: 157
Watkins, D.
——; Cooper, B. A.
A critical intracellular concentration of fully reduced nonmethylated folate polyglutamates prevents macrocytosis and diminished growth rate of human cell line K562 culture. 214: 465
Watkins, J. L. See Riches, D. W. H.
Watts, D. I. See Sugden, M. C.
Ways, J. P.
——; Parham, P.
The binding of monoclonal antibodies to cell–surface molecules. A quantitative analysis with immunoglobulin G against two alloantigenic determinants of the human transplantation antigen HLA–A2. 216: 423
Weatherall, D. J. See Wood, W. G.
Webb, M. See Nicholson, J. K.
Weber, A.
——; Westhead, E. W.; Winkler, H.
Specificity and properties of the nucleotide carrier in chromaffin granules from bovine adrenal medulla. 210: 789
Wedlock, D. J. See Davies, A.
Weglicki, W. B. See Low, M. G.
Weinberg, J. M. See Somermeyer, M. G.
Weiner, A. L.
——; Cousins, R. J.
Hormonally produced changes in ceruloplasmin synthesis and secretion in primary cultured rat hepatocytes. Relationship to hepatic copper metabolism. 212: 297
Weinstein, J. N. See Klausner, R. D.
Weisbecker, U.
——; Ibbotson, G. E.; Livesey, G.; Williams, K. E.
The fate of homologous iodine–125 labeled immunoglobulin G within rat visceral yolk sacs incubated in vitro. 214: 815
Weisman, Y. See Somjen, D.
Weiss, H. See Brunori, M.
Weitzman, P. D. J. See Robinson, M. S.
Wells, R. M. G. See Purdie, A.
Welsh, M. See Malaisse, W. J.; Sener, A.
Welti, D. See Boswell, A. P.
Weser, U. See Morpurgo, L.
West, L. See Burchell, B.
Westhead, E. W. See Weber, A.
Wharton, S. A.
——; Riley, P. A.
A comparison of lysosomal involvements in the degradation of normal and abnormal endogenous proteins of differing half–lives in MRC5 cells. 212: 345
Whetton, A. D.
——; Gordon, L. M.; Houslay, M. D.
Elevated membrane cholesterol concentrations inhibit glucagon–stimulated adenylate cyclase. 210: 437
Adenylate cyclase is inhibited upon depletion of plasma membrane cholesterol. 212: 331

——; Houslay, M. D.; Dodd, N. J. F.; Evans, W. H.
The lipid fluidity of rat liver membrane subfractions. 214: 851
White, H. A. See Adams, A.
White, I. N. H.
——; Smith, A. G.; Farmer, P. B.
Formation of N-alkylated protoporphyrin IX in the livers of mice after diethylnitrosamine treatment. 212: 599
White, J. H. See Tsai, C. S.
White, M. D.
——; Collins, J. G.; Denborough, M. A.
The effect of dantrolene on skeletal-muscle sarcoplasmic-reticulum function in malignant hyperpyrexia in pigs. 212: 399
Whiting, J. A. See Barritt, G. J.
Whitney, J. See Vessey, D. A.
Whittle, S. R. See Turner, A. J.
Widenius, T. V. See Eriksson, C. J. P.
Wiebkin, O. W. See Bartold, P. M.
Wiedemann, H. See Furthmayr, H.
Wielburski, A.
——; Nelson, B. D.
Evidence for the sequential assembly of cytochrome oxidase subunits in rat liver mitochondria. 212: 829
Wiggins, D. See Krebs, H. A.; Vina, J.
Wilansky, H. See Brosnan, M. E.
Wild, J.
——; Robinson, D.; Winchester, B.
Isolation of mannose-binding proteins from human and rat liver. 210: 167
Wild, T. F. See Anderton, P.
Wildenthal, K. See Crie, J. S.
Wilding, C. See Agius, L.
Wiley, J. S. See Sawyer, W. H.
Wilkinson, D. G. See Delaney, S. J.
——; Wilson, J.; Hames, B. D.
Synthesis of spore proteins during development of Dictyostelium discoideum. 216: 567
Wilkinson, T. See Bray, R. C.
Willenbrock, F. See Brocklehurst, K.
Willenbrock, S. J. F. See Brocklehurst, K.
Willey, K. P. See Tatnell, M. A.
Williams, D. G. See Cain, K.
Intramolecular group transfer is a characteristic of neurotoxic esterase and is independent of the tissue source of the enzyme. A comparison of the aging behavior of diisopropyl phosphorofluoridate-labeled proteins in brain, spinal cord, liver, kidney, and spleen from hen and in human placenta. 209: 817
Williams, J. L. See Lloyd, D.
Williams, J. P. See Lem, N. W.
Williams, K. See Chlebowski, J. F.
Williams, K. E. See Weisbecker, U.
Williams, P. F. See Plehwe, W. E.
Williams, R. C. See Fox, K. R.
Williams, R. J. P. See Boswell, A. P.
Williamson, D. H. See Brosnan, M. E.; Gibbons, G. F.; Klim, R. A.; Munday, M. R.; Rofe, A. M.
Williamson, G.
——; Engel, P. C.
The effect on butyryl-CoA dehydrogenase of reagents specific for nucleophilic sulfur. 211: 559
Willingale, J.
——; Perera, K. P. W. C.; Mantle, P. G.
An intermediary role for the tremorgenic mycotoxin TR-2 in the biosynthesis of verrucologen. 214: 991
Wills, P. R. See Tellam, R. L.
Willson, R. L. See Searle, A. J. F.
Wilson, G. R. See Bunce, G. E.
Wilson, J. See Wilkinson, D. G.
Wilson, J. M. See Mitchell, J. L. A.
Wilson, K. J. See Klauser, S.
Wilson, M. T. See Al-Tai, W. F.; Brunori, M.; Jones, G. D.; Sarti, P.
Wilson, S. R. See Cercek, B.
——; Houslay, M. D.
Proteolytic activation and solubilization of endoplasmic-reticulum cyclic AMP phosphodiesterase activity. 213: 99
——; Wallace, A. V.; Houslay, M. D.
Insulin activates the plasma-membrane and dense-vesicle cyclic AMP phosphodiesterase in hepatocytes by distinct routes. 216: 245
Wilton, D. C.
The effect of cholesterol on ubiquinone and tetrahymanol biosynthesis in Tetrahymena pyriformis. 216: 203
Wiman, B. See Nilsson, T.
Winchester, B. See Abraham, D.; Cenci Di Bello, I.; Wild, J.
Wingerup, L. See Carlstedt, I.; Uldbjerg, N.
Winkler, H. See Weber, A.
Winston, G. W.
——; Harvey, W.; Berl, L.; Cederbaum, A. I.
The generation of hydroxyl and alkoxyl radicals from the interaction of ferrous bipyridyl with peroxides. Differential oxidation of typical hydroxyl-radical scavengers. 216: 415
Winterbourn, C. C.
Lactoferrin-catalyzed hydroxyl radical production. Additional requirement for a chelating agent. 210: 15
Winzor, D. J. See Ward, L. D.
Wise, B. C. See Katoh, N.
Wise, J. G.
——; Duncan, T. M.; Latchney, L. R.; Cox, D. N.; Senior, A. E.
Properties of F_1-ATPase from the uncD412 mutant of Escherichia coli. 215: 343
Wittenauer, L. A. See Johnson, J. D.
Wollheim, C. B. See Halban, P. A.; Praz, G. A.
Wolowyk, M. W. See Young, J. D.
Wong, R. S. C.
——; Madapallimattam, G.; Bennick, A.
The role of glandular kallikrein in the formation of a salivary proline-rich protein A by cleavage of a single bond in salivary protein C. 211: 35
Wong, S. K. F.
——; Martin, B. R.
The role of a guanine nucleotide-binding protein in the activation of rat liver plasma-membrane adenylate cyclase by forskolin. 216: 753
Wood, E. J. See Dawson, A.
Wood, L. See Kirschke, H.
Wood, P. M. See Hyman, M. R.; Miller, D. J.
Wood, W. G.
——; Weatherall, D. J.
Developmental genetics of the human hemoglobins. 215: 1
Woods, E. F. See Gruen, L. C.
Woolley, D. E. See Taylor, D. J.
Woon, T. C. See Hill, B. C.
Wootton, J. C.
Reassessment of ammonium-ion affinities of NADP-specific glutamate dehydrogenases. Activation of the Neurospora crassa enzyme by ammonium and rubidium ions. 209: 527
Worku, Y.
——; Newby, A. C.
The mechanism of adenosine production in rat polymorphonuclear leukocytes. 214: 325
Worrall, D. M.
——; Tubbs, P. K.
A bifunctional enzyme complex in coenzyme A biosynthesis: purification of pantetheine phosphate adenylyltransferase and dephospho-CoA kinase. 215: 153
Wrigglesworth, J. M. See Proteau, G.
Wright, A. J. See Burguillo, F. J.
Wright, D. J. See Lim, C. K.
——; Lim, C. K.
Simultaneous determination of hydroxymethylbilane synthase

and uroporphyrinogen III synthase in erythrocytes by high-performance liquid chromatography. 213: 85
——; Rideout, J. M.; Lim, C. K. High-performance liquid chromatography of coproporphyrin isomers. 209: 553
Wu, J. S. R.
——; Jarvis, S. M.; Young, J. D. The human erythrocyte nucleoside and glucose transporters are both band 4.5 membrane polypeptides. 214: 995
Wu, N. C.
——; Yourist, J. E.; Rector, W. D.; Ahmad, F. Partial characterization of the phosphotransferase system of human central-nervous-system myelin. 209: 789
Wu, S. T. See Pieper, G. M.
Wusteman, M. M. See Downes, C. P.
Wuytack, F. See Raeymaekers, L.
Wyn-Jones, E. See Davies, A.

Xu, Y. H.
——; Gietzen, K.; Galla, H. J.; Sackmann, E. A simple assay to study protein-mediated lipid exchange by fluorescence polarization. 209: 257
Protein-mediated lipid transfer. The effects of lipid-phase transition and of charged lipids. 213: 21

Yamada, M.
——; Matsumoto, T.; Takahashi, N.; Suda, T.; Ogata, E. Stimulatory effect of prostaglandin E_2 on 1α,25-dihydroxyvitamin D_3 synthesis in rats. 216: 237
Yamakawa, T. See Isobe, K.
Yang, S. K. See Cerniglia, C. E.
Yap, S. H. See Horbach, G. J. M. J.
Yariv, J. Identity of bacterioferritin and cytochrome b_1. 211: 527
Yarygin, K. N. See Neifakh, A. A.
Ybarra, J. See Prasad, A. R. S.
Ylikahri, R. H. See Eriksson, C. J. P.
Yoffe, J. R. See Taylor, D. J.
Yokoi, H.
——; Ohba, Y.; Takabe, T. Electron-nuclear-double-resonance studies of spinach plastocyanin. 215: 209
Yokoyama, T. See Isobe, K.
York, D. A. See Holt, S.
Yoshimasa, Y.
——; Hamada, S. Thyroxine action on the rat liver nuclear thyroid-hormone receptors. Binding of thyroxine to the nuclear nonhistone protein and induction of mitochondrial α-glycerophosphate dehydrogenase activity. 210: 331
Young, J. D. See Jarvis, S. M.; Wu, J. S. R.
——; Wolowyk, M. W.; Jones, S. M.; Ellory, J. C. Red-cell amino acid transport. Evidence for the presence of system ASC in mature human red blood cells. 216: 349
Young, M. See Carroll, M. J.
Yourist, J. E. See Wu, N. C.
Yubisui, T. See Takeshita, M.

Zak, R. See Reddy, M. K.
Zammit, V. A. Increased sensitivity of carnitine palmitoyltransferase I activity to malonyl-CoA inhibition after preincubation of intact rat liver mitochondria with micromolar concentrations of malonyl-CoA in vitro. 210: 953
Reversible sensitization and desensitization of carnitine palmitoyltransferase I to inhibition by malonyl-CoA in isolated rat liver mitochondria. Significance for the mechanism of malonyl-CoA-induced sensitization. 214: 1027
Zelewski, L. See Scislowski, P. W. D.
Zetterberg, A. See Engstroem, W.
Zhang, Y. S.
——; Cao, Q. P.; Li, Z. G.; Cui, D. F. Preparation of [B23-D-alanine]des-(B25-B30)-hexapeptide-insulin by a combination of enzymic and nonenzymic synthesis. 215: 697
Zheltova, A. O. See Gusev, N. B.
Zhou, M. See Nandi, J.
Zolnierowicz, S. See Scislowski, P. W. D.
Zubatov, A. S. See Luzikov, V. N.
Zucker, S. See LaBombardi, V. J.
Zuehlsdorf, M. See Imort, M.
——; Imort, M.; Hasilik, A.; Von Figura, K. Molecular forms of β-hexosaminidase and cathepsin D in serum and urine of healthy subjects and patients with elevated activity of lysosomal enzymes. 213: 733
Zwingelstein, G. See Anderton, P.

Keyword Index

VOLUMES 209–216 (1983)

Acanthamoeba
cytochrome aa3 hemoprotein oxidase 210: 721
Acetaldehyde
ethanol testosterone formation 210: 29
inhibition Anabaena photosynthesis 212: 755
Acetic
acid diphenyloxazole radioactivity fluorog 209: 281
Acetoacetate
metab brain prepn development 216: 21
pyruvate dehydrogenase muscle mitochondria 214: 725
Acetyl
CoA acetyltransferase mechanism liver 213: 153
CoA carnitine acyltransferase inhibition 216: 499
CoA fibroblast malonic semialdehyde 216: 81
CoA metab detn mitochondria 210: 265
CoA site spermidine spermine acetyltransferase 213: 707
Acetylcholine
eccrine sweat gland 212: 143
synaptosome anoxia calcium hydrogen 212: 289
Acetylcholinesterase
solubilization heparin 215: 201
synaptosomal diet lipid 211: 507
AcetylCoA
carboxylase rape seed development 212: 223
Acetylenkephalin
carboxypeptidase kidney acetyltyrosine deacetylase 209: 471
Acetylgalactosaminyltransferase
microsome kidney Tamm Horsfall 215: 483
Acetylhematoporphyrin
albumin hemopexin 214: 503
Acetylmethylenepenicillanate
inactivation beta lactamase 211: 447
Acetylmethylenepenicillinate
inhibition beta lactamase Escherichia 209: 609
Acetylneuraminate
formation metab liver 216: 87
Acetyltransferase
acetyl CoA mechanism liver 213: 153
chloramphenicol Escherichia fusidate resistance 215: 29
spermidine spermine acetyl CoA site 213: 707
spermidine spermine kinetics mechanism 213: 701
Acetyltyrosine
deacetylase kidney acetylenkephalin carboxypeptidase 209: 471
Acherontia
fat body substrate cycling 210: 49
Acid
phosphatase chloramphenicol cotton embryo 212: 73
Acidosis
glutamine synthetase muscle 216: 523
glutamine transport kidney membrane 212: 713
glutamine turnover 210: 277
Acinetobacter
mandelate dehydrogenase stereospecificity 209: 379
ACTH
corticosteroid membrane cholesterol 214: 561
Actin
metab muscle development starvation 214: 593
mol assocn polyethylene glycol 213: 651
polysome aggregate liver 216: 215
self assocn nucleation 213: 727
Actinidin
active site probe 209: 873
active site probe benzofuroxan 213: 713
Actinin
muscle proteinase 209: 635
Active
site actinidin probe benzofuroxan 213: 713
site alc dehydrogenasse enantioselectivity 211: 391
site coupling pyruvate dehydrogenase temp 213: 331
site cytochrome oxidase ligand binding 215: 57
site dehydroquinase shikimate dehydrogenase 213: 405
site probe cysteine proteinase 209: 873
site proteinase benzyl guanidinothiobenzoate 215: 287
site serine tryptophan subtilisin 215: 413
AcylCoA
dehydrogenase inhibition mercaptoacetate mitochondria 215: 457
Acyltransferase
carnitine inhibition acetyl CoA 216: 499
carnitine mitochondria adipose liver malonylCoA 210: 591
cholesterol fibroblast lipoprotein 216: 93
cholesterol progesterone 215: 191
glycerol phosphate noradrenaline 214: 235
Adaptation
temp ornithine decarboxylase poikilotherm 216: 597
Adenine
nitrogenase iron protein Rhodospirillum 209: 881
nucleotide insulin secretory granule 210: 297
nucleotide site succinyl CoA synthetase 215: 513
nucleotide status chloroplast light 210: 273
Adenosine
adipocyte lipolysis pregnancy lactation 216: 121
deaminase glucose transport insulin 212: 189
formation polymorphonuclear leukocyte 214: 325
metab leukocyte heart regulation 214: 317
phospholipid metab adipose 212: 489 212: 499
Adenosylhomocysteinase
liver inactivation isobutylthioadenosine 210: 429
Adenosylmethionine
decarboxylase inhibition species specificity 213: 495
Adenylate
cyclase erythroid differentiation 210: 559
cyclase forskolin guanine nucleotide 216: 753
cyclase GDP review 216: 527
cyclase glioma isoprenaline adrenoceptor 216: 669
cyclase liver glucagon 214: 93
cyclase liver membrane cholesterol 210: 437 212: 331
cyclase muscle Orconectes 211: 319
cyclase PGE1 GTP 214: 231
cyclase regulation insulin 214: 547
deaminase specificity snail foot muscle 215: 39
Adenylyl
imidodiphosphate inhibition ATPase 210: 727
Adenylyltransferase
pantetheine phosphate liver 215: 153
Adhesion
intestine epithelium cell glycopeptide 211: 75
keratinocyte glycoprotein glycosaminoglycan 212: 355
Adhesiveness
hepatoma glycoprotein dibutyryl cAMP 212: 859
Adipocyte
differentiation oxo acid dehydrogenase 214: 177
glucose insulin receptor catecholamine 216: 737
glucose transport insulin glucagon 212: 189
glycerol phosphate acyltransferase regulator 214: 247
insulin glycoprotein 214: 111

insulin receptor ATP 214: 203
insulin receptor down regulation 210: 373
lipolysis pregnancy lactation adenosine 216: 121
model insulin lipid metab 214: 443
Adipose
brown GDP corticosterone 214: 265
brown mitochondria uncoupling protein 210: 859
brown obesity corticosterone 214: 215
calcium transport genetic obesity 214: 163
epididymis glucose oxidn seleni= um 214: 471
fatty acid formation obesity 212: 393
glucose metab sheep fetus 210: 677
glycerol phosphate acyltransfer= ase noradrenaline 214: 235
lipogenesis uremia glucose dialy= sis 214: 459
lipolysis vasopressin starvation 212: 899
lipoprotein lipase starvation heparin 210: 639
mitochondria carnitine acyl= transferase malonylCoA 210: 591
phospholipid metab adenosine 212: 499
phospholipid metab insulin 212: 489
tissue brown lipogenesis obesity 216: 543
tissue lipogenesis oleoylanilide 212: 339
tissue respiration uncoupling obesity 214: 171
ADP
photosynthesis regulation 210: 273
ribosyltransferase Plasmodium 209: 687
Adrenal
chromaffin granule nucleotide transport 210: 789
cortex membrane cholesterol 214: 561
Adrenaline
amino acid metab muscle 216: 63
calcium transport mitochondria 216: 51
fructose bisphosphate hepatocyte 214: 829
glutaminase liver mitochondria 210: 957
lipase heart defatted powder 212: 379
lipolysis heart 216: 241
pyruvate dehydrogenase calcium 212: 271
transport adrenal chromaffin granule 210: 789
Adrenergic
agonist calcium phospholipase 210: 115
liver mitochondria respiration 210: 867
phosphofructokinase activation calcium 216: 717
receptor adenylate cyclase eryr= oid differentiation 210: 559
receptor glioma desensitization isoprenaline 216: 669
Adrenoceptor
phospholipid methyltransferase hepatocyte 216: 675
Affinity
chromatog alpha amylase Bacil= lus 209: 561
chromatog cyclic nucleotide phosphodiesterase 211: 341
chromatog glutathione transfer= ase trout 211: 523
chromatog hydrogenase 213: 391
chromatog macroglobulin recep= tor fibroblast 214: 629
chromatog phenylboronate gly= coHb 209: 771
chromatog renin purifn 211: 519
labeling alc dehydrogenase enan= tioselectivity 211: 391
Aflatoxin
B1 glutathione conjugate charac= terization 210: 227
Agarose
Procion Red hydrogenase affinity chromatog 213: 391
Age
fatty acid formation adipose 212: 393
glycoprotein mucus intestine 215: 405
phosphatidylcholine transmethy= lation hepatocyte adrenocep= tor 216: 675
proteoglycan link protein carti= lage 214: 269
Aggregation
melittin counterion 211: 683
Agrostemma
ribosome inactivating protein 216: 617
Alanine
kidney liver ornithine decarb= oxylase 210: 617
metab liver regulation 210: 645
sodium electrogenic cotransport liver 210: 621
transport erythrocyte sodium 216: 349
transport liver membrane 214: 489
Albumin
acetylhematoporphyrin 214: 503
carnitine palmitoyltransferase detn 216: 495
elimination senescence 216: 309
hepatocyte methyloxovalerate metab 212: 655
serum binding photobilirubin II 213: 25
serum ligand binding 209: 135
serum ligand binding immobili= zation 213: 387
tooth predentin 214: 769
Alc
dehydrogenase affinity labeling enantioselectivity 211: 391
dehydrogenase eye retina 213: 547
dehydrogenase liver activation glycosylation 209: 309
glucose uptake liposome 216: 113
lipid peroxidn liver 212: 625
metab liver microsome desferri= oxamine 210: 107
testosterone ketone body 210: 29
Aldehyde
dehydrogenase coenzyme binding liver 211: 363
dehydrogenase inactivation disulfiram mechanism 213: 551
dehydrogenase kinetics unstable substrate 211: 277
dehydrogenase lens 215: 351
dehydrogenase lens kinetics mechanism 215: 361
reductase active cleavage pro= duct kidney 209: 597
Aldolase
inactivation cathepsin D 211: 529
threonine liver metabolic state 214: 687
Aldosterone
protein formation bladder 214: 29
Algae
red thylakoid photosynthetic electron transport 210: 583
Alk
phosphatase brush border mem= brane 214: 209
phosphatase intestine fetus 211: 553
Alkane
formation hepatocyte hydroxy= nonenal 214: 479
Alkylated
porphyrin liver diethylnitrosa= mine 212: 599
Alkylation
cytochrome P450 heme liver 211: 455
Allosterism
enzyme regulation lipid order 213: 479
Amelogenin
sequence homol tooth enamel matrix 211: 149
Amine
oxidase yeast substrate specifici= ty 211: 481
Amino
acid compn protein size 213: 271
acid compn tetanus toxin 209: 897
acid cytochrome c conformation 213: 687
acid glycoprotein degrdn perox= ide 211: 323
acid high pressure liq chromatog 213: 525
acid mammary starvation re=

feeding 216: 343
acid metab muscle catechola= mine 216: 63
acid ornithine decarboxylase kidney liver 210: 617
acid pancreas calcium transport 214: 899
acid sequence detn peptide 215: 261
acid transfer protein placenta 210: 99
acid transport erythrocyte sodium 216: 349
acid transport growth factor 210: 361
acid transport stomach 210: 451
Aminoadipylcysteine
formation Cephalosporium 213: 573
Aminoadipylcysteinylvaline
formation Cephalosporium 213: 573
Aminohexynoate
inhibition ornithine aminotrans= ferase 209: 243
Aminoisobutyrate
kidney liver ornithine decarb= oxylase 210: 617
Aminolevulinate
synthase formation liver hemin 214: 967
synthase liver iron lipid peroxidn 212: 321
synthase Rhodopseudomonas 209: 709
Aminopeptidase
A formation intestine microvillus 210: 389
microvillus liposome reconstitu= tion 211: 755
muscle human 211: 567
N intestine formation processing 212: 161
processing intestine glycosylation 216: 325
Aminopicolinate
glutamine metab kidney tubule 210: 483
Aminotransferase
aspartate microcrystal catalytic efficiency 211: 427
ornithine inhibition aminohexy= noate 209: 243
tyrosine hormone polyamine 214: 679
Aminotriazole
catalase Musca peroxide gluta= thione 216: 503
Amiprophosmethyl
calcium transport and inhibition corn 212: 567
Ammonia
formation kidney gluconeogenes= is 210: 695
formation kidney glutamate glutamine 212: 705
Ammonium
activation glutamate dehydroge= nase Neurospora 209: 527
chloride thymocyte protein glycosylation 216: 681
lysosome enzyme monocyte macrophage 214: 671
AMP
cyclic liver diet fat 212: 573
Amphibian
UDP glucuronosyltransferase liver 212: 265
Amylase
alpha Bacillus affinity chromatog 209: 561
Anabaena
acetaldehyde inhibition photo= synthesis 212: 755
gas vesicle protein structure 209: 809
Anabolic
agent protein breakdown myob= last 210: 243
hormone protein muscle starva= tion 216: 583
Anacystis
electron transport cytochrome b f 210: 269
photosystem 2 extn calcium 210: 473
Angiotensin
formation kallikrein 213: 193
glutaminase liver mitochondria 210: 957
oleate metab liver 212: 85
Animal
cell glycopeptide 212: 881
Anion
electron reduced ascorbate oxi= dase 209: 167
transport protein sequence er= ythrocyte 213: 577
Anoxia
synaptosome recovery calcium hydrogen 212: 289
Anthocidaris
egg zinc binding protein 211: 109
Antibacterial
protein Sarcophaga hemolymph 211: 727
Antibiotic
triostin sulfur 35 DNA binding 211: 543
Antibody
antiglucosidase glycogen metab liver 212: 99
creatine kinase avidity mercap= tan 215: 505
light chain peptide chromatog 211: 163
monoclonal creatine kinase ELISA 213: 417
monoclonal HLA A2 antigen binding 216: 423
monoclonal interaction fibronec= tin 215: 147
monoclonal kidney endopepti= dase 214: 377
monoclonal protein kinase spleen 209: 435
Antifungal
benzoate glycolysis inhibition ATP 214: 657
Antigen
chemiluminescence immunoassay 216: 185
differentiation teratocarcinoma glycoprotein carrier 215: 491
histocompatibility phosphoryla= tion lymphoblast 210: 79
HLA A2 binding monoclonal antibody 216: 423
phosphoglycoprotein structure Trypanosoma 213: 313
Wrb sialoglycoprotein erythro= cyte 209: 273
Antigenic
determinant fibronectin plasma 215: 147
Antiinflammatory
glycogen metab liver 212: 99
Antimalarial
inhibition ADP ribosyltransfer= ase Plasmodium 209: 687
Antimetabolite
polyamine diamine oxidase antitumor 212: 895
Antithrombin
thrombin binding heparin 211: 91
thrombin complex formation heparin 213: 345
Antitumor
diamine oxidase polyamine antimetabolite 212: 895
Antiviral
bromovinylaminodideoxyuridine 211: 439
Aorta
basement membrane carbohyd= rate 211: 735
basement membrane protein 211: 397
endothelium ectonucleotidase stereoselectivity 214: 975
glycoprotein 211: 257
Apolipoprotein
chylomicron interaction liver 216: 71
hydrophobic chromatog 209: 143
Appetite
lipogenesis mammary lactation rhythm 214: 183
Arabinan
synthase bean induction control 210: 509
synthase bean subcellular locali= zation 210: 497
Arachidonate
measles virus infection persis= tence 214: 665
protein formation muscle stretching 214: 153
Arginine
analog prepn cytochrome c 215: 651
Arom
multienzyme complex domain 213: 405
Arrhenius
plot evaluation error 209: 277
Arsonobutanoate
crystal structure 213: 217
Arsonomethyl
analog phosphoglycerate interac= tion kinase 213: 211
group structure phosphate ana= log 213: 217
Artery
smooth muscle pinocytosis 216: 467

Aryl
sulfatase A endometrium 211: 649
Arylsulfatase
kinetics mechanism pH liver 213: 603
Ascorbate
chloroplast hydrogen peroxide paraquat 210: 899
inhibition formylation lysine formaldehyde 214: 289
oxidase electron reduced anion 209: 167
Asparagine
glycosyltransferase inhibition epoxypeptide deriv 209: 323
linked oligosaccharide proteoder= matan sulfate 213: 297
peptide glycosylation 209: 331
Asparagus
ribosome inactivating protein 216: 617
Aspartate
aminotransferase microcrystal catalytic efficiency 211: 427
Aspergillus
cellulase endoglucanase 213: 437
phosphofructokinase 209: 669
ATP
artery smooth muscle pinocyto= sis 216: 467
citrate lyase induction glucose 212: 65
citrate lyase multiple form liver 214: 299
gamma phosphate radioactivity detn 210: 717
glycolysis inhibition benzoate antifungal 214: 657
GTP hormone review 216: 527
insulin receptor adipocyte 214: 203
myosin binding mechanism kinetics 209: 617
PGI2 secretion endothelium 214: 273
phosphofructokinase intestine starvation 210: 129
photosynthesis regulation 210: 273
ATPase
activation azidocalmodulin 215: 475
brush border membrane 214: 209
c subunit mutation Escherichia 211: 717
calcium liver microsome 210: 405
calcium sarcoplasmic reticulum muscle denervation 210: 339
calmodulin antagonist 216: 611
calmodulin dependent micro= some liver 214: 69
dynamics sarcoplasmic reticulum 213: 67
F1 Escherichia mutant 210: 395
F1 mutant uncD412 Escherichia 215: 343
F1F0 mutation phosphorylation Escherichia 213: 451
inhibition adenylyl guanylyl imidodiphosphate 210: 727
membrane liver regeneration 212: 445
membrane regulation lipid order 213: 479
mutation Escherichia membrane function 216: 143
myosin ATP binding mechanism 209: 617
myosin regulation phosphoryla= tion 214: 839
pancreas membrane surface 214: 59
proton transport microsome mercapto 213: 587
stomach activator phospholipase A2 212: 887
thermal denaturation sodium potassium 211: 771
Atrium
ventricle heart protein formation 214: 497
Author
instruction policy journal 209: 1
Avidin
biotin binding liver membrane 210: 121
Azidocalmodulin
enzyme activation 215: 475
Azoferredoxin
enzymic activation Rhodospiril= lum 213: 741
molybdoferredoxin dissocn ki= netics redn 215: 393
A23187
liver calcium transport 214: 405
Bacillus
alpha amylase affinity chromatog 209: 561
beta xylosidase inhibition 215: 67
chemotaxis protein methyl ac= cepting 213: 759
citrate synthase 213: 53
mutant pyruvate dehydrogenase multienzyme 211: 463
mycobacillin forming enzyme component 215: 539
oxo acid dehydrogenase multien= zyme complex 215: 133
penicillin binding protein car= boxypeptidase 214: 653
spore coat protein processing 210: 411
Bacitracin
liver metab insulin 216: 369
Bacteria
rumen linolenate isomerization hydrogenation 216: 519
Bacterioferritin
cytochrome b1 211: 527
Bacteroides
endogalactosidase 213: 485
Barley
Ricinus protein homol 213: 543
Basement
membrane carbohydrate aorta 211: 735
membrane protein aorta 211: 397
Bb
fragment complement amino acid 209: 51
fragment complement sequence 209: 61
Bean
arabinan synthase subcellular localization 210: 497
chloroplast ferritin ferredoxin 214: 943
kidney enterokinase inhibitor 209: 91
polysaccharide synthase induc= tion control 210: 509
Benzoate
antifungal glycolysis inhibition ATP 214: 657
metab liver microsome desferri= oxamine 210: 107
Benzofuroxan
actinidin active site probe 213: 713
Benzyl
guanidinothiobenzoate protei= nase active site 215: 287
Benzylamine
oxidase inhibitor plasma 211: 767
Beryllium
cell cycle blockade 216: 773
Beta
oxidn liver peroxisome obesity 212: 891
BHK
fibroblast glycan ricin resistance 211: 575
Bile
acid inhibition glutathione transferase 215: 581
acid secretion conjugation 214: 923
acid transport liver sporidesmin 212: 197
bilirubin glucuronidase Rana 212: 265
phospholipid taurodeoxyholate 216: 107
protein blood liver 210: 549
protein colchicine 216: 409
secretion bile acid conjugation 214: 923
Bilirubin
bile Rana glucuronidase 212: 265
erythrocyte membrane receptor 210: 489
IXalpha photochem heat 209: 695
photoisomer binding serum albumin 213: 25
Bimane
binding cytochrome P450 reduc= tase 215: 159
Bioavailability
zinc milk nutrition human 209: 505
Biochem
nomenclature newsletter Issue 1 209: I
Biotin
avidin binding liver membrane 210: 121

Biphenyl
polychlorinated uroporphyrino= gen decarboxylase hepatocyte 214: 145
Bipyridyl
iron peroxide radical 216: 415
Birefringence
elec hyaluronic acid conforma= tion 213: 671
Bladder
protein formation aldosterone 214: 29
Bleomycin
lung oligosaccharide lipid 213: 609
Blood
compn vasopressin starvation 212: 231
group MNS erythrocyte glyco= phorin 213: 399
metabolite detn NMR vertebrate 211: 605
myeloperoxidase eosinophil peroxidase 209: 781
platelet activator phosphatidyli= nositol metab 212: 433
platelet cholera toxin 212: 669
pressure protein formation heart 216: 537
protein liver bile 210: 549
sampling leucine metab 214: 1015
Blue
Sepharose serum albumin ligand binding 213: 387
Body
leucine metab radioassay 214: 1015
Bone
collagenase interaction metallo= proteinase inhibitor TIMP 211: 313
culture proteoglycanase 209: 741
mineralization proteoglycan formation 216: 589
ornithine decarboxylase duode= num cholecaliferol 214: 293
Boronic
acid inhibition beta lactamase 209: 229
Brain
cell homogenate metab develop= ment 216: 21
chicken Thy1 glycoprotein 213: 143
electron transport reductase ontogeny 214: 751
endopeptidase immunoadsorbent chromatog 215: 519
energy metab hypoxia 212: 365
inositol phosphate neurotran= smitter 212: 473
lactate oxidn fetus newborn 214: 633
phosphatidylinositol phosphodi= esterase calcium 215: 431
sorbitol dehydrogenase human 211: 81
spermine synthase kinetics me= chanism 215: 669
synaptosome anoxia calcium hydrogen 212: 289
Branched
chain oxo acid dehydrogenase Bacillus 215: 133
chain oxoacid dehydrogenase immunochem 213: 339
Bromotrichloromethane
lipid peroxidn liver 212: 625
Bromovinylaminodideoxyuridine
herpes simplex virus I 211: 439
Brown
adipose GDP corticosterone 214: 265
adipose mitochondria uncoupling protein 210: 859
adipose obesity corticosterone 214: 215
adipose tissue lipogenesis obesity 216: 543
Brugia
retinol metab 214: 367
Brush
border endopeptidase kidney intestine 214: 377
border kidney calcium transport 214: 37
border membrane vesicle kidney 214: 209
border neutral proteinase kidney 211: 743
Butanedione
inhibition nicotinamide nucleo= tide transhydrogenase 209: 889
Butyl
hydroperoxide erythrocyte Hb degrdn 212: 759
Butyrivibrio
linolenate gamma hydrogenation 216: 519
Butyryl
CoA dehydrogenase sulfhydryl reagent 211: 559
C
reactive protein formation liver 210: 707
Cadaverine
accumulation cell ornithine starvation 210: 945
Cadmium
metallothionein formation liver 210: 769
Caerulein
phosphatidylinositol diphosphate metab pancreas secretagogue 212: 483
Calcitonin
receptor glycosylation 212: 609
Calcitriol
receptor analysis liq chromatog 209: 223
Calcium
activation phosphofructokinase heart 216: 717
ATPase liver microsome 210: 405
ATPase sarcoplasmic reticulum muscle denervation 210: 339
binding protein duodenum 211: 709
binding protein nervous system squid 209: 797
calmodulin dolichol phosphory= lation Tetrahymena 216: 317
calmodulin melittin complex formation 209: 269
catecholamine gluconeogenesis liver 212: 555
collagen polymn 213: 751
cycling mitochondria liver man= ganese 212: 773
cytoplasm lymphocyte stimula= tion mitogen 212: 685
diet kidney dihydroxyvitamin D3 214: 893
hepatocyte protein metab 216: 529
hormone phosphatidylinositol liver 212: 733
hydrogen anoxia synaptosome recovery 212: 289
hydroxyapatite proline rich phosphoprotein 213: 11
insulin granule protein phospho= rylation 210: 532
insulin receptor phosphorylation 214: 361
insulin secretory granule 210: 297
interaction pyruvate kinase 211: 631
lymphocyte pyruvate dehydroge= nase mitogen 216: 359
manganese interaction pancreas islet 210: 307
mast cell histamine release 210: 737
mitochondria liver glucagon 210: 73
mitochondria respiration adre= nergic 210: 867
muscle proteinase 209: 635
ornithine decarboxylase heart isoprenaline 212: 241
oxygen radical neutrophil 216: 459
phosphatidylinositol formation lymphocyte 212: 691
phosphatidylinositol phosphodi= esterase brain 215: 431
phospholipid sensitive protein kinase spleen 209: 435
photosystem 2 extn Anacystis 210: 473
polyphosphoinositide metab pancreatic islet 216: 101
protein kinase corpus luteum 214: 569
protein kinase insulin 212: 819
pyruvate dehydrogenase muscle mitochondria 214: 725
thymocyte mitogenesis Con A 214: 575
transport amiprophosmethyl and inhibition 212: 567
transport endoplasmic reticulum pancreas islet 212: 113
transport heart mitochondria catecholamine 216: 333
transport hepatocyte phospholi= pase 210: 115
transport kidney brush border 214: 37
transport liver A23187 214: 405
transport membrane stomach 210: 315
transport mitochondria adrena=

line 216: 51
transport mitochondria calmodulin 214: 929
transport mitochondria liver hormone 210: 463
transport mitochondria obesity liver 214: 163
transport pancreas amino acid 214: 899
transport pyruvate dehydrogenase hormone 212: 271
transport sarcoplasmic reticulum dantrolene 212: 399
uptake GDP mitochondria obesity 214: 171
Caldariella
ribosome subunit protein 209: 461
Calmidazolium
calmodulin antagonist compd 4880 216: 611
Calmodulin
antagonist calmidazolium compd 4880 216: 611
azido deriv enzyme activation 215: 475
calcium dolichol phosphorylation Tetrahymena 216: 317
cyclic nucleotide phosphodiesterase pancreas 211: 341
dansylation fluorescence ligand binding 211: 473
dependent ATPase microsome liver 214: 69
I filament troponin interaction 209: 417
melittin complex formation calcium 209: 269
mitochondria calcium transport 214: 929
nervous system squid 209: 797
protein kinase insulin 212: 819
Calorimetry
macroglobulin 209: 725
cAMP
cGMP protein kinase inhibitor peptide 213: 159
chemiluminescence immunoassay 216: 185
chondrocyte histamine receptor 212: 517
content lymphocyte prepn 216: 207
glycerolipid formation hepatocyte 216: 129
lipase heart defatted lipase 212: 379
liver obesity fructose phosphate 214: 1019
phosphodiesterase activation calmodulin melittin 209: 269
phosphodiesterase endoplasmic reticulum 213: 99
phosphodiesterase hepatocyte insulin 216: 245
phosphodiesterase liver endoplasmic reticulum 213: 89
phosphodiesterase pancreatic hormone 214: 99
prolactin release pituitary tumor 216: 551
tyrosine aminotransferase polyamine 214: 679
Canavanine
contg protein degrdn fibroblast 212: 345
Candida
Pichia amine oxidase purifn 211: 481
respiration 212: 749
Carbachol
phosphatidylinositol diphosphate metab pancreas secretagogue 212: 483
phosphoinositide metab parotid 216: 633
Carbohydrate
basement membrane aorta 211: 735
binding protein fibroblast 211: 625
endopeptidase 2411 intestine kidney 215: 317
glycoprotein degrdn peroxide 211: 323
lectin potato 211: 273
structure IgM 211: 55
surface glycoprotein Trypanosoma variant 209: 261
Carbon
dioxide formation acetyl CoA metab 210: 265
monoxide binding cytochrome peroxidase 209: 701
monoxide cytochrome c binding Nitrosomonas 211: 503
monoxide cytochrome oxidase kinetics 215: 425
monoxide nitrogenase Klebsiella hydrogen prodn 211: 589
monoxide oxidase EPR Pseudomonas 211: 687
tetrachloride lipid peroxidn liver 212: 625
tetrachloride liver oxygen radical 215: 441
Carboxy
group modified protein site fibronectin 215: 613
terminus identification protein sequencing 215: 273
Carboxyglutamate
contg protein odontoblast 216: 249
Carboxyl
esterase multiple form serum 215: 91
Carboxylase
pyruvate degrdn mitochondria lysosome 210: 845
pyruvate gluconeogenesis insulin 214: 451
ribulose diphosphate Rhodospirillum 212: 45
vitamin K peptide glutamate carboxylation 215: 75
vitamin K stimulation liver 209: 719
Carboxylation
pyruvate hepatocyte hormone 212: 417
pyruvate mitochondria hepatocyte insulin 214: 451
Carboxypeptidase
acetylenkephalin kidney acetyltyrosine deacetylase 209: 471
penicillin binding protein Bacillus 214: 653
Carcinosarcoma
memsin serine proteinase 211: 695
Cardiolipin
cytochrome c oxidase dogfish 209: 901
Carnitine
acyltransferase inhibition acetyl CoA 216: 499
acyltransferase mitochondria adipose liver malonylCoA 210: 591
palmitoyltransferase detn albumin 216: 495
palmitoyltransferase malonyl CoA inhibition 212: 525
palmitoyltransferase malonyl CoA pH 212: 521
palmitoyltransferase mitochondria inhibition malonyl CoA 210: 953
palmitoyltransferase mitochondria malonyl CoA 214: 21 214: 83
palmitoyltransferase sensitization malonyl CoA 214: 1027
Carotene
metab Brugia 214: 367
Cartilage
collagen pyridinoline crosslink 215: 175
femoral head proteoglycan 213: 355
link protein binding hyaluronate 213: 445
protein metab trachea culture 212: 659
proteoglycan aggregate formation culture 214: 855
proteoglycan aggregate RIA 213: 371
proteoglycan aggregation 215: 705
proteoglycan human 209: 387
proteoglycan link protein age 214: 269
proteoglycan metab 215: 217
proteoglycan resorption protein synovium leukocyte 209: 337
resorption catabolin leukocyte 215: 385
Casein
metab mammary cortisol 212: 507
methylumbelliferyl proteinase detn fluorometry 209: 265
Castor
bean storage protein 213: 543
Catabolin
formation synovium fibroblast 216: 481
leukocyte 215: 385
like protein synovium leukocyte 209: 337
Catalase
Musca aminotriazole peroxide glutathione 216: 503
oleate metab inhibition pea 213: 249

Catalysis
hydroxyl radical prodn lactoferrin 210: 15
Catecholamine
amino acid metab muscle 216: 63
calcium transport heart mitochondria 216: 333
calcium transport liver mitochondria 210: 463
gluconeogenesis liver calcium 212: 555
glucose adipocyte insulin receptor 216: 737
oleate metab liver 212: 85
pyruvate carboxylation hepatocyte 212: 417
pyruvate dehydrogenase calcium 212: 271
pyruvate dehydrogenase heart 214: 581
Cathepsin
B insulin B chain 213: 467
D hexosaminidase lysosomal enzyme 213: 733
D histochem localization dinitrophenyl pepstatin 211: 139
D inactivation aldolase 211: 529
D pepsin kinetics 211: 237
myoblast fusion 214: 871
Cation
activation glutamate dehydrogenase Neurospora 209: 527
activation phospholipase A1 liver 209: 865
divalent retinyl phosphate interaction 214: 719
insulin secretory granule 210: 297
phosphatidylinositol formation lymphocyte 212: 691
specificity proton translocase insulin granule 210: 235
Cattle
cervix mucosa glycoprotein structure 215: 701
CD
ribulose phosphate epimerase detn 211: 617
Cell
cadaverine accumulation ornithine starvation 210: 945
culture muscle protein degrdn 216: 559
cycle blockade beryllium 216: 773
cycle Physarum protein 212: 245
division regulation phosphate 214: 695
hybrid cybrid insulin receptor 214: 309
membrane ATPase mutation Escherichia 211: 717
membrane calcium transport stomach 210: 315
membrane glycoprotein oligosaccharide structure 209: 659
membrane phospholipid diet fat 212: 573
nucleus RNA efflux methodol criticism 214: 915
secretion mutation review 216: 1
Cellobiase
midgut Rhynchosciara 213: 43
Cellobiohydrolase
Trichoderma 215: 677
Cellobiose
phosphorylase Cellvibrio 209: 803
Cellulase
endoglucanase Aspergillus 213: 437
Cellvibrio
cellobiose phosphorylase 209: 803
Cephalosporium
aminoadipylcysteinylvaline formation 213: 573
Ceruloplasmin
copper hepatocyte hormone 212: 297
Cervix
dermatan sulfate proteoglycan human 209: 497
glycoprotein structure mucus 213: 427
mucosa glycoprotein structure cattle 215: 701
mucus glycoprotein characterization 211: 13
mucus glycoprotein heat 209: 565
cGMP
cAMP protein kinase inhibitor peptide 213: 159
phosphodiesterase hepatoma liver 213: 379
Chemiluminescence
energy transfer immunoassay 216: 185
hepatocyte 214: 479
Chemotactic
peptide oxygen radical neutrophil 216: 459
Chemotaxis
Bacillus protein methyl accepting 213: 759
Chicken
brain Thy1 glycoprotein 213: 143
Chloramphenicol
acetyltransferase Escherichia fusidate resistance 215: 29
acid phosphatase cotton embryo 212: 73
Chloride
interaction molybdenum sulfite oxidase 211: 227
Chloroaniline
oxidn cytochrome P450 cumene hydroperoxide 212: 539
Chlorohydroxyanthranilate
tryptophan glucose metab liver 214: 511
Chlorophyll
phosphorylation electron transport chloroplast 210: 517
phosphorylation photosynthesis regulation review 212: 1
Chloroplast
adenine nucleotide status light 210: 273
ferritin ferredoxin bean 214: 943
phosphatidate turnover diacylgalactosylglycerol compn 210: 949
phosphoprotein photosynthesis regulation review 212: 1
spinach glutathione ascorbate 210: 899
Chlorotryptophan
tryptophan glucose metab liver 214: 511
Chlorplast
protein phosphorylation electron transport 210: 517
Chlorpromazine
mitochondria calcium transport calmodulin 214: 929
Cholate
metab Pseudomonas 216: 641
transport liver sporidesmin 212: 197
Cholecaliferol
metabolite bone duodenum ornithine decarboxylase 214: 293
Cholera
toxin blood platelet 212: 669
Cholestenone
reductase epididymis 211: 65
Cholesterol
acyltransferase fibroblast lipoprotein 216: 93
acyltransferase progesterone 215: 191
adenylate cyclase liver membrane 210: 437
adrenal cortex membrane 214: 561
exchange chylomicron lipoprotein 215: 279
formation liver substrate supply 210: 625
formation mammary lactation 212: 843
liver membrane adenylate cyclase 212: 331
metab monocyte macrophage 210: 523
side chain enzyme LHRH 216: 747
Tetrahymena tetrahymanol ubiquinone formation 216: 203
transport radioassay microsome hepatocyte 216: 137
Cholestyramine
diet liver triglyceride 216: 511
Cholinergic
synaptic vesicle membrane lipid organization 211: 155
Cholinesterase
serum 215: 91
serum purifn procainamide Sepharose 211: 243
Chondrocyte
cAMP histamine receptor 212: 517
collagen formation embryo fibronectin 211: 417
proteoglycan aggregate formation culture 214: 855
surface hyaluronate binding proteoglycan 214: 777

Chondrosarcoma
proteoglycan aggregation 215: 705
Choriogonadotropin
radioiodinated specific radioac= tivity detn 212: 259
Chromaffin
granule nucleotide transport adrenal 210: 789
Chromatin
oviduct binding estrogen recep= tor 210: 905
Chromatog
affinity alpha amylase Bacillus 209: 561
affinity cyclic nucleotide phos= phodiesterase 211: 341
affinity glutathione transferase trout 211: 523
affinity hydrogenase 213: 391
affinity macroglobulin receptor fibroblast 214: 629
affinity phenylboronate glycoHb 209: 771
affinity renin purifn 211: 519
dye ligand glucose phosphate dehydrogenase 209: 363
high pressure liq peptide 211: 163
hydrophobic egg yolk protein 209: 143
immunoadsorbent endopeptidase brain 215: 519
immunoaffinity fetoprotein 216: 227
liq calcitriol receptor analysis 209: 223
liq collagen crosslink 213: 525
liq high performance porphyrin 211: 435
liq hydroxymethylbilane uropo= prphyrinogen synthase detn 213: 85
liq reversed phase metallothion= ein isoprotein 209: 71
reversed phase coproporphyrin 209: 553
spectroscopy peptide sequencing 215: 261
Chromatophore
Rhodopseudomonas phosphory= lation uncoupler model 212: 25
Chromogen
Ehrlich collagen crosslink 209: 263
Chromophore
labeling cysteine peptide sepn 211: 163
Chromosome
protein liver phosphorylation polyamine 209: 197
Chylomicron
interaction liver apolipoprotein 216: 71
phosphatidylcholine cholesterol exchange chylomicron 215: 279
Chymopapain
nomenclature identification 213: 559
Chymotrypsin
neurofilament triplet protein structure 215: 239
Cibacron
Blue immobilized serum albumin ligand 213: 387
Circulation
adipose vasopressin 212: 899
Cirrhosis
desmosine isodesmosine elastase liver 214: 1023
Citrate
lyase ATP induction glucose 212: 65
stabilization glucocorticoid re= ceptor liver 210: 259
synthase Bacillus 213: 53
Cloning
gene uncE mutation Escherichia 211: 717
CMP
acetylneuraminate formation liver 216: 87
acetylneuraminate hydrolase liver generation 214: 1003
CoA
malonyl carnitine palmitoyl= transferase pH 212: 521
malonyl inhibition carnitine palmitoyltransferase 212: 525
malonyl inhibition carnitine palmitoyltransferase mito= chondria 210: 953
synthase liver 215: 153
transferase oxo acid kinetics kidney 213: 179
Colchicine
heart proteolysis inhibition 210: 63
protein bile 216: 409
Cold
brown adipose obesity 214: 215
Collagen
basement protein aorta 211: 397
chain hydroxylation lysine pep= tide 211: 599
crosslink Ehrlich chromogen 209: 263
crosslink pyridinoline structure glycosylation 215: 167
crosslinking deoxypyridoxine embryo 210: 633
culture fibroblast glycosamino= glycan formation 215: 107
degrdn eosinophil review 213: 769
formation chondrocyte embryo fibronectin 211: 417
intima structure placenta human 211: 295
lysyl hydroxylase oxygen 213: 507
osteogenesis imperfecta glyco= saminoglycan 213: 171
polymn calcium lanthanide 213: 751
pyridinoline crosslink cartilage 215: 175
reducible crosslink detn tissue 213: 525
type I sequence skin 215: 183
type VI structure intima 211: 303
Collagenase
bone interaction metalloprotei= nase inhibitor TIMP 211: 313
detn recording viscometer 213: 275
Mycoplasma infected fibroblast 212: 641
pro biosynthesis secretion fi= broblast 214: 281
Colostrum
mitogen epidermal growth factor 212: 465
Compd
4880 calmodulin antagonist calmidazolium 216: 611
Complement
C1 subcomponent monocyte culture 216: 385
C1r autoactivation 215: 369
C1s serine proteinase sequence 215: 565
C2 peptide thiol group 213: 201
C3 binding nonenzymic activa= tion 211: 381
C3b receptor lymphocyte eryth= rocyte 210: 567
C4b binding protein complex 209: 847
C4b degrdn binding protein 209: 857
esterase inhibitor complex 213: 617
Factor B Bb fragment 209: 51
factor B Bb fragment 209: 61
terminal complex subunit stoi= chiometry 209: 753
Con
A lymphocyte glutamine metab 212: 835
A thymocyte mitogenesis calcium 214: 575
Concanavalin
A affinity exoglucanase Saccha= romyces 215: 471
lymphocyte plasma membrane potential 210: 885
lymphocyte sodium transport 210: 893
Conformation
alc dehydrogenase enantioselec= tivity 211: 391
anion transport protein erythro= cyte 213: 577
ATPase F1F0 subunit c 213: 451
complement esterase inhibitor complex 213: 617
cytochrome c amino acid 213: 687
cytochrome c lysine modification 213: 679
hyaluronic acid elec birefrin= gence 213: 671
macroglobulin ligand binding clearance 209: 99
selectivity enzyme kinetics pH 211: 701
Conjugation
bile acid secretion 214: 923
Connective
tissue catabolism eosinophil review 213: 769
tissue proteoglycan 211: 119

Copper
ceruloplasmin hepatocyte hormone 212: 297
cytochrome oxidase MCD 215: 303
interaction glycylhistidyllysine NMR EPR 209: 533
metallothionein laccase reconstitution 211: 515
site superoxide dismutase EXAFS 213: 765
Coproporphyrin
reversed phase chromatog 209: 553
Coproporphyrinogen
oxidase mechanism Rhodopseudomonas 209: 709
Core
protein disulfide proteoheparan sulfate 215: 417
Corpus
luteum protein kinase 214: 569
Corticosteroid
ACTH membrane cholesterol 214: 561
glycogen synthase phosphatase 214: 539
phosphatidylcholine transmethylation hepatocyte adrenoceptor 216: 675
Corticosterone
brown adipose obesity 214: 215
GDP brown adipose 214: 265
protein formation muscle starvation 216: 583
protein metab muscle 214: 617
Cortisol
casein lactalbumin mammary 212: 507
enzyme induction liver 212: 305
Cortisone
threonine metab liver 214: 687
Cotton
embryo chloramphenicol acid phosphatase 212: 73
leafworm ecdysonoate hydroxyecdysonoate 213: 261
Counterion
melittin aggregation 211: 683
Creatine
kinase antibody avidity mercaptan 215: 505
kinase isoenzyme muscular dystrophy 213: 417
Crithidia
mannose carrier polyprenol 212: 123
Crosslink
collagen Ehrlich chromogen 209: 263
collagen pyridinoline structure glycosylation 215: 167
pyridinoline collagen cartilage 215: 175
reducible detn collagen tissue 213: 525
Crosslinking
neurofilament triplet protein 215: 227
protein kinase subunit 209: 581
Crustacean
adenylate cyclase muscle 211: 319
Cryoenzymol
trypsin 215: 555
Crystal
structure phosphoglycerate analog 213: 217
CTP
dolichol phosphorylation Tetrahymena 216: 317
Culture
cell muscle protein degrdn 216: 559
chondrocyte proteoglycan aggregate formation 214: 855
collagen fibroblast glycosaminoglycan formation 215: 107
protein metab cartilage trachea 212: 659
Cumene
hydroperoxide chloroaniline oxidn cytochrome P450 212: 539
Cunninghamella
methylbenzanthracene metab 216: 377
Cuprous
transfer laccase reconstitution 211: 515
Cyanate
lysosome enzyme transport 210: 795
Cyclase
adenylate erythroid differentiation 210: 559
adenylate forskolin guanine nucleotide 216: 753
adenylate insulin 214: 547
adenylate liver glucagon 214: 93
adenylate liver membrane cholesterol 210: 437 212: 331
adenylate muscle Orconectes 211: 319
adenylate PGE1 GTP 214: 231
guanylate regulation liver 215: 447
Cyclic
AMP liver diet fat 212: 573
nucleotide chemiluminescence immunoassay 216: 185
nucleotide phosphodiesterase calmodulin pancreas 211: 341
nucleotide phosphodiesterase endoplasmic reticulum 213: 99
nucleotide phosphodiesterase isoenzyme gizzard 215: 627
nucleotide phosphodiesterase liver endoplasmic reticulum 213: 89
Cycloleucine
kidney liver ornithine decarboxylase 210: 617
Cystatin
inhibition cysteine proteinase 211: 129
Cysteine
iron lipid peroxidn microsome 212: 549
oxidn toxicity hepatocyte 212: 39
peptide sepn chromophore labeling 211: 163
proteinase active site probe 209: 873
proteinase inhibition cystatin 211: 129
proteinase muscle differentiation 214: 871
proteinase papaya nomenclature identification 213: 559
Cystine
transport lysosome leukocyte cystinosis 216: 393
Cystinosis
cystine transport lysosome leukocyte 216: 393
Cytidylyl
transferase IAA plant growth 216: 627
Cytochem
cytochrome P450 hepatocyte 212: 15
Cytochrome
aa3 hemoprotein oxidase Acanthamoeba 210: 721
b f Anacystis electron transport 210: 269
b1 bacterioferritin 211: 527
b5 c interaction NMR 215: 11
c arginine analog prepn 215: 651
c binding carbon monoxide Nitrosomonas 211: 503
c conformation amino acid 213: 687
c lysine modification conformation 213: 679
c oxidase cardiolipin dogfish 209: 901
c oxidase redn dithionite 209: 175
oxidase active site ligand binding 215: 57
oxidase assembly mitochondria liver 212: 829
oxidase copper MCD 215: 303
oxidase kinetics 215: 589
oxidase kinetics carbon monoxide 215: 425
oxidase kinetics phospholipid liposome 209: 81
oxidase proteoliposome proton translocation 210: 199
oxidase reaction intermediate spectra 215: 659
oxidn Acanthamoeba 214: 47
peroxidase Pseudomonas 209: 701
proton transport mitochondria oxidoredn 216: 259
P450 chloroaniline oxidn cumene hydroperoxide 212: 539
P450 cytochem detn hepatocyte 212: 15
P450 heme alkylation liver 211: 455
P450 maintenance hepatocyte culture 210: 855
P450 multiple form immunochem 215: 83
P450 phenobarbital form RIA 212: 55
P450 reductase labeling bromobimane 215: 159
P450 reductase radioimmunoas=

say microsome 211: 333
Rhodopseudomonas photosyn= thesis oxygen methylsulfoxide 212: 783
Cytofluorometry
flow surface protein endocytosis 214: 189
Cytoplasm
aldehyde dehydrogenase coen= zyme binding 211: 363
calcium lymphocyte stimulation mitogen 212: 685
Cytoskeleton
artery smooth muscle pinocyto= sis 216: 467
protein polysome aggregate liver 216: 215
Cytosol
lung phospholipid transfer pro= tein 215: 637
membrane calcium mast cell 210: 737
RNA transport heart hypertro= phy 209: 285
Cytostructure
mitochondria endoplasmic reti= culum liver 214: 795
C3b
complement receptor membrane intracellular 210: 567
C9
complement dimer complex membrane 209: 753
Dansylation
calmodulin fluorescence ligand binding 211: 473
Dantrolene
sarcoplasmic reticulum calcium transport 212: 399
Daudi
DNA formation thymidine inter= feron 214: 983
thymidine DNA formation inter= feron 214: 983
Deacetylase
acetyltyrosine kidney acetyl= enkephalin carboxypeptidase 209: 471
Deaminase
adenosine glucose transport insulin 212: 189
adenylate specificity snail foot muscle 215: 39
Decarboxylase
adenosylmethionine inhibition species specificity 213: 495
ornithine bone duodenum chole= califerol metabolite 214: 293
ornithine diaminopropane liver 216: 701
ornithine embryo temp 216: 597
ornithine heart isoprenaline calcium 212: 241
ornithine kidney liver amino acid 210: 617
ornithine mammary starvation 212: 149
ornithine Physarum modification polyamine 214: 345
uroporphyrinogen erythrocyte liver 215: 45
uroporphyrinogen hepatocyte chem 214: 145
uroporphyrinogen liver hexa= chlorobenzene iron 214: 909
Deethylase
ethoxyresorufin cytochem detn hepatocyte 212: 15
Deficiency
metalloendopeptidase mouse kidney microvillus 209: 251
Deglycosylation
ganglioside GM1 liver 213: 321
Dehydratase
threonine liver metabolic state 214: 687
Dehydrogenase
acylCoA inhibition mercaptoace= tate mitochondria 215: 457
alc affinity labeling enantioselec= tivity 211: 391
alc eye retina 213: 547
alc liver activation glycosylation 209: 309
aldehyde coenzyme binding liver 211: 363
aldehyde inactivation disulfiram mechanism 213: 551
aldehyde kinetics unstable sub= strate 211: 277
aldehyde lens 215: 351
aldehyde lens kinetics mechanism 215: 361
Bacillus oxo multienzyme com= plex 215: 133
branched chain oxoacid immu= nochem 213: 339
butyryl CoA sulfhydryl reagent 211: 559
glucose phosphate Leuconostoc 209: 363
glucose phosphate NADPH GSSG 214: 959
glutamate kinetics mechanism norvaline 211: 99
glutamate Neurospora activation cation 209: 527
glycerophosphate liver T4 210: 331
hydroxyprostaglandin kinetics skin 212: 129
isocitrate placenta distribution 214: 339
lactate activation phosphate muscle 215: 685
malate endocytosis macrophage 210: 419
malate uptake mitochondria 210: 207
mandelate stereospecificity Acinetobacter 209: 379
NADH Thermus 209: 427
oxo acid adipocyte differentia= tion 214: 177
pyruvate active site coupling temp 213: 331
pyruvate calcium transport hormone 212: 271
pyruvate heart catecholamine 214: 581
pyruvate lymphocyte mitogen calcium 216: 359
pyruvate multienzyme Bacillus mutant 211: 463
pyruvate regulation muscle mitochondria 214: 725
shikimate active site 213: 405
sorbitol brain human 211: 81
threonine liver metabolic state 214: 687
triethylamine diethylamine subunit structure 211: 535
Dehydroquinase
active site Neurospora 213: 405
Denaturation
phosphorylase b guanidinium chloride 213: 595
thermal ATPase sodium potassi= um 211: 771
Denervation
atrophy turnover muscle protein 210: 89
sympathetic phosphatidylinosi= tol formation parotid 214: 865
Deoxycholic
acid degrdn Pseudomonas 210: 829
Deoxycytidine
metab mouse rat 210: 367
Deoxyfluoromannose
metab Saccharomyces 209: 677
Deoxyglucose
adipocyte insulin glucagon 212: 189
transport liver lysosome 212: 211
Deoxypyridoxine
collagen crosslinking embryo 210: 633
Dephospho
CoA kinase liver 215: 153
Dermatan
sulfate fibroblast culture collagen 215: 107
sulfate proteoglycan cervix hu= man 209: 497
sulfate proteoglycan skin 213: 289
Desaturase
phospholipid Micrococcus 209: 345
Desferrioxamine
liver microsome alc metab 210: 107
Desmosine
liver cirrhosis 214: 1023
Desmosterol
tritiated cholesterol transport 216: 137
Desulfovibrio
membrane hydrogenase 209: 445
Determinant
antigenic fibronectin plasma 215: 147
Development
brain cell homogenate metab 216: 21
brain electron transport reduc= tase 214: 751
Dictyostelium phosphoprotein 212: 699
Dictyostelium protein formation 216: 567
estradiol binding fetoprotein skin 210: 653
fatty acid metab liver 212: 93

Hb gene expression review 215: 1
heart nonhistone protein nucleus 210: 175
link protein cartilage age 214: 269
lipid rape seed 212: 223
liver phenol glucuronidation 214: 533
mosquito glutathione transferase 210: 281
myofibril protein metab starvation 214: 587 214: 593
protein heart ventricle atrium 214: 497
Dexamethasone
enzyme fetus 216: 281
enzyme induction liver 212: 305
glutamine synthetase muscle 216: 523
glyceride liver ethanol 212: 617
lipogenesis hepatocyte insulin 212: 135
protein breakdown myoblast 210: 243
Diabetes
glucose phosphorylase glycogen synthase 210: 783
inositol transport sciatic nerve 210: 775
ketoacidosis glutamine metab muscle 214: 757
lipogenesis liver mother fetus 216: 695
phosphocreatine metab heart 210: 477
triiodothyronine RNA protein synthesis 214: 637
Diacylgalactosylglycerol
compn chloroplast phosphatidate turnover 210: 949
Diacytosome
membrane lipid fluidity liver 214: 851
Dialysis
peritoneum glucose lipogenesis insulin 214: 459
Diamine
oxidase antitumor polyamine antimetabolite 212: 895
Diaminodideoxyglucofuranuronolactam
Pseudomonas lipopolysaccharide hydrolysis 215: 597
Diaminoiminopyrimidinone
dihydropteridine reductase kinetics 211: 357
Diaminopropane
ornithine decarboxylase liver 216: 701
Diazepam
binding serum albumin 209: 135
Dibutyryl
cAMP hepatoma glycoprotein adhesiveness 212: 859
Dichlorophenol
indophenol reductase leukocyte phagocytosis 210: 577
Dictyostelium
protein formation development 216: 567
spore coat protein phosphorylation 212: 699
Dicyclohexylcarbodiimide
inhibition nicotinamide nucleotide transhydrogenase 209: 889
Diet
lipid synaptosomal acetylcholinesterase 211: 507
protein liver alanine metab 210: 645
Diethylamine
dehydrogenase subunit structure 211: 535
Diethylnitrosamine
alkylated porphyrin liver 212: 599
Differentiation
adipocyte oxo acid dehydrogenase 214: 177
antigen teratocarcinoma glycoprotein carrier 215: 491
monocyte glycosaminoglycan formation 210: 661
muscle cysteine proteinase 214: 871
Diffusion
GSH microviscosity erythrocyte 216: 655
passive NAD mitochondria potato 216: 443
rotational ATPase sarcoplasmic reticulum 213: 67
Diglyceride
fatty acid phosphoinositide erythrocyte 213: 555
Dihydropteridine
reductase kinetics dihydropterin pyrimidinone 211: 357
Dihydropterin
dihydropteridine reductase kinetics 211: 357
Dihydroxycholecalciferol
bone duodenum DNA decarboxylase 214: 293
metab intestine kidney 214: 261
Dihydroxyvitamin
D3 formation PGE2 216: 237
D3 kidney diet calcium 214: 893
Dilazep
binding dissocn fibroblast 216: 299
Dimer
insulin receptor lipogenesis metab 216: 687
Dimerization
somatotropin characterization 209: 107
Dimethylaminoazobenzene
isothiocyanate peptide sequencing precolumn 211: 173
thiohydantoin Ig chain sequencing 211: 173
Dinitrophenyl
pepstatin cathepsin D histochem localization 211: 139
Dipeptidyl
peptidase formation intestine microvillus 210: 389
peptidase IV fibroblast surface 216: 177
peptidase IV microvillus liposome reconstitution 211: 755
Diphenyloxazole
acetic acid radioactivity fluorog 209: 281
Diphosphatase
nucleoside stereoselectivity aorta 214: 975
Disaccharide
compn heparan sulfate sulfation 209: 315
Dismutase
superoxide copper zinc site EXAFS 213: 765
superoxide fly aminotriazole catalase 216: 503
Disorder
heme myoglobin reconstitution 215: 117
Disulfide
bond intima collagen placenta 211: 295
bond location glycoprotein VSG117 Trypanosoma 209: 481
core protein proteoheparan sulfate 215: 417
lysis insulin NMR 211: 499
redn enzyme liver 213: 519
Disulfiram
inactivation aldehyde dehydrogenase mechanism 213: 551
Dithionite
redn cytochrome oxidase kinetics 209: 175
Divalent
cation retinyl phosphate interaction 214: 719
DMSO
metab microsome desferrioxamine 210: 107
DNA
binding triostin sulfur 35 antibiotic 211: 543
bone duodenum vitamin D metabolite 214: 293
formation thymidine interferon Daudi 214: 983
Dog
liver beta galactosidase 213: 473
Dogfish
cytochrome c oxidase cardiolipin 209: 901
Dolichol
oligosaccharide hepatoma dibutyryl cAMP 212: 859
phosphorylation Tetrahymena calcium calmodulin 216: 317
polyprenol soybean 213: 513
Dolichos
seed lectin isolation property 209: 653
Dolichyl
phosphate mannosyl carrier liver 210: 541
phosphate phosphatase soybean 213: 513
Duck
egg yolk apolipoprotein chromatog 209: 143

Dunaliella
membrane lipid osmotic pressure 213: 131
Duodenum
calcium binding protein 211: 709
ornithine decarboxylase chole= califerol metabolite 214: 293
Dye
ligand chromatog glucose phosp= hate dehydrogenase 209: 363
Dynamics
ATPase sarcoplasmic reticulum 213: 67
Eccrine
sweat gland metab 212: 143
Ecdysonoate
insect 213: 261
EcoRI
restriction endonuclease kinetics mechanism 211: 405
Ectonucleotidase
stereoselectivity aorta endotheli= um 214: 975
Efflux
RNA cell nucleus methodol criticism 214: 915
Egg
Anthocidaris zinc binding protein 211: 109
white cystatin purifn 211: 129
yolk protein hydrophobic chro= matog 209: 143
Ehrlich
chromogen collagen crosslink 209: 263
Elastase
liver cirrhosis 214: 1023
Elec
birefringence hyaluronic acid conformation 213: 671
Electrochem
monitoring neurotransmitter metab review 211: 1
Electrolyte
detn plasma vertebrate NMR 211: 605
Electron
microscopy intima collagen human 211: 303
reduced nitroarom ascorbate oxidase 209: 167
transfer flavoprotein liver 209: 541
transfer molybdoferredoxin Klebsiella 209: 207
transport Anabaena acetaldeh= yde inhibition 212: 755
transport Anacystis cytochrome b f 210: 269
transport mitochondria vol hor= mone 214: 395
transport photosynthetic thyla= koid red algae 210: 583
transport protein phosphoryla= tion chlorplast 210: 517
transport reductase brain onto= geny 214: 751
Electrophoresis
gel radioactivity detection fluo= rog 209: 281
Embryo
collagen crosslinking deoxypyri= doxine 210: 633
collagen formation chondrocyte fibronectin 211: 417
cotton chloramphenicol acid phosphatase 212: 73
estradiol binding fetoprotein skin 210: 653
fetoprotein secretion glycosyla= tion 212: 313
Hb 215: 377
liver sialyltransferase acceptor specificity 213: 253
ornithine decarboxylase temp 216: 597
Enamel
matrix tooth amelogenin se= quence homol 211: 149
Enantioselectivity
alc dehydrogenase affinity label= ing 211: 391
Endocytosis
glycoprotein hepatocyte 214: 421
liposome membrane protein detn 214: 189
malate dehydrogenase macro= phage 210: 419
mechanism review 210: 1
proteoglycan fibroblast 215: 295
Endogalactosidase
Bacteroides 213: 485
Endoglucanase
cellulase Aspergillus 213: 437
Endometrium
aryl sulfatase A 211: 649
Endonuclease
restriction EcoRI kinetics me= chanism 211: 405
Endopeptidase
brain immunoadsorbent chroma= tog 215: 519
kidney monoclonal antibody 214: 377
microvillus liposome reconstitu= tion 211: 755
2411 carbohydrate intestine kidney 215: 317
Endoplasmic
reticulum calcium transport pancreas islet 212: 113
reticulum calcium transport stomach 210: 315
reticulum cyclic nucleotide phos= phodiesterase 213: 99
reticulum liver cAMP phospho= diesterase 213: 89
reticulum mitochondria cytos= tructure liver 214: 795
ENDOR
spinach plastocyanin structure 215: 209
Endosome
derived vesicle protein hepato= cyte 216: 27
membrane lipid fluidity liver 214: 851
Endosperm
membrane glucan synthase rye= grass 209: 627
Endothelium
aorta ectonucleotidase stereose= lectivity 214: 975
PGI2 secretion purine 214: 273
Energy
charge leukocyte adenosine formation 214: 325
consumption platelet detn 210: 145
metab brain hypoxia 212: 365
Enkephalin
degrdn aminopeptidase muscle human 211: 567
Enkephalinase
brain immunoadsorbent chroma= tog 215: 519
Enolpyruvylshikimate
phosphate synthase Escherichia 213: 187
Enterokinase
inhibitor kidney bean 209: 91
Enthalpy
vant Hoff plot error 209: 277
Entropy
Arrhenius plot error 209: 277
Enzyme
activation azidocalmodulin 215: 475
cholesterol side chain LHRH 216: 747
disulfide redn liver 213: 519
formation intestine microvillus 210: 389
glutamine metab kidney amino= picolinate 210: 483
glycolytic formation fibroblast proliferation 214: 195
glycoprotein formation liver regeneration 214: 1003
hepatocyte glucose diabetes 210: 783
induction glucocorticosteroid liver 212: 305
inhibition I50 215: 429
ketogenesis rumen epithelium mitochondria 216: 769
kinetics detn competing sub= strate 211: 511
kinetics detn unstable substrate 211: 277
kinetics nomenclature symbolism terminol 213: 561
kinetics pH overlapping ioniza= tion 211: 701
kinetics progress curve differen= tial 215: 589
kinetics rate equation degree 211: 23
lipid synthesizing insulin modu= lation 214: 443
liver taurodeoxycholate 216: 107
lysosome biosynthesis transport macrophage 214: 671
lysosome secretion macrophage stimulation 212: 869
membrane regulation lipid order 213: 479
mycobacillin forming component Bacillus 215: 539
nitrogenase activating Rhodospi= rillum 213: 741
plasma clearance endocytosis macrophage 210: 419
sialate precursor forming organ 210: 21
substrate phosphoglycerate

arsonomethyl analog 213: 211 213: 217
transport lysosome cyanate 210: 795
urea cycle fetus hormone 216: 281
Eosinophil
connective tissue catabolism review 213: 769
peroxidase myeloperoxidase blood 209: 781
peroxidase uterus 213: 165
Epidermal
growth factor colostrum mitogen 212: 465
growth factor protein breakdown 210: 251
growth factor protein phospho= rylation 214: 11
Epididymis
cholestenone reductase 211: 65
fat glucose oxidn selenium 214: 471
Epimerase
methylmalonyl CoA mechanism Propionibacterium 213: 635 213: 643
ribulose phosphate erythrocyte human 211: 617
Epithelium
gingiva proteoglycan 211: 119
mammary fatty acid formation 212: 155
rumen mitochondria ketogenesis enzyme 216: 769
Epoxide
diol inactivation glutathione X liver 215: 617
Epoxypeptide
deriv inhibition asparagine gly= cosyltransferase 209: 323
EPR
carbon monoxide oxidase Pseu= domonas 211: 687
glycylhistidyllysine interaction copper 209: 533
nitrate reductase molybdenum center spinach 213: 137
sulfite oxidase molybdenum center 211: 227
Erabutoxin
venom sea snake 213: 39
Erythrocyte
alanine transport sodium 216: 349
anion transport protein sequence 213: 577
complement C3b receptor 210: 567
diglyceride phosphoinositide fatty acid 213: 555
electrolyte metabolite detn NMR 211: 605
ghost lysis flow cytometry 216: 195
glutathione transferase multiple form 215: 213
glycophorin A variant 213: 399
GSH diffusion microviscosity 216: 655
hydroxymethylbilane uroporphy= rinogen synthase detn 213: 85
lipid peroxidn Hb degrdn 212: 759
maturation transferrin receptor 210: 37
membrane bilirubin receptor 210: 489
membrane heredity spherocyto= sis 211: 349
membrane nucleoside glucose transporter 214: 995
microinjection muscle protein degrdn 216: 559
nucleoside transport preservation 210: 457
nucleoside transporter binding 216: 661
potassium detn NMR 210: 961
Rh null thiol protein 213: 267
ribulose phosphate epimerase human 211: 617
rouleaux formation 214: 257
sialoglycoprotein Wrb antigen 209: 273
uroporphyrinogen decarboxylase 215: 45
Erythroid
differentiation adenylate cyclase 210: 559
Escherichia
ATPase mutation membrane function 216: 143
beta lactamase inhibition acetyl= methylenepenicillinate 209: 609
enolpyruvylshikimate phosphate synthase 213: 187
fusidate resistance chloramphen= icol acetyltransferase 215: 29
F1 ATPase mutant uncD412 215: 343
galactose transport hydrogen ion 210: 699
gene uncE mutation ATPase 213: 451
gene uncE mutation sequence 211: 717
mutant F1 ATPase 210: 395
potassium transport hydrogen ion 216: 709
protonmotive force valinomycin 212: 105
pyruvate kinase kinetics 211: 631
ESR
nitrogenase iron molybdenum cofactor 211: 495
Esterase
carboxyl multiple form serum 215: 91
inhibitor complement complex 213: 617
neurotoxic organ aging 209: 817
Estradiol
binding fetoprotein skin ontoge= ny 210: 653
Estrogen
receptor binding oviduct chro= matin 210: 905
sulfotransferase placenta uterus 216: 451
Ethanol
glyceride metab liver 212: 617
lipid peroxidn liver 212: 625
testosterone formation acetal= dehyde 210: 29
Ethanolamine
oligosaccharide protein linkage Trypanosoma 209: 261
Ethoxyresorufin
deethylase cytochem detn hepa= tocyte 212: 15
Ethylmalonate
metab methylsuccinate mesaco= nate 214: 641
Ethylprotoporphyrin
cytochrome P450 heme liver 211: 455
Euphorbia
lectin 215: 433
seed lectin 215: 141
EXAFS
superoxide dismutase copper zinc site 213: 765
Exchange
reaction xanthine oxidase pH 215: 101
Excluded
vol actin polymn 213: 651
Exercise
gluconeogenesis liver 212: 633
muscle metab insulin 212: 453
Exocytosis
Sendai virus cell permeability 210: 737
Exoglucanase
postsecretional modification Saccharomyces 215: 471
Eye
retina alc dehydrogenase 213: 547
Fat
body Acherontia substrate cy= cling 210: 49
diet liver phospholipid 212: 573
Fatty
acid binding liver cholestyramine 216: 511
acid binding serum albumin immobilization 213: 387
acid diglyceride phosphoinositide erythrocyte 213: 555
acid elongation brain ontogeny 214: 751
acid formation adipose obesity 212: 393
acid formation mammary epithe= lium 212: 155
acid glycerolipid formation he= patocyte 216: 129
acid metab hepatocyte newborn 214: 937
acid metab liver ketogenesis 214: 553
acid metab swine development 212: 93
acid oxidn acetyl CoA 216: 499
acid pyruvate dehydrogenase muscle 214: 725
acid synthase component inhibi= tion liver 215: 545
acid synthetase thioester hydro= lase role 209: 215
Feces
porphyrin isomer detn chroma= tog 211: 435

Femoral
head cartilage proteoglycan 213: 355
Ferredoxin
ferritin chloroplast bean 214: 943
oxidn kinetics Spirulina 211: 219
Ferritin
ferredoxin chloroplast bean 214: 943
iron loading lipid peroxidn 209: 557
Fetoprotein
estradiol binding skin ontogeny 210: 653
secretion glycosylation yolk sac 212: 313
skin newborn formation charac= terization 216: 227
Fetus
alk phosphatase intestine 211: 553
amino acid placenta transfer 210: 99
brain electron transport reduc= tase 214: 751
insulin receptor liver 212: 529
lactate oxidn brain 214: 633
link protein cartilage age 214: 269
lipogenesis glucose insulin preg= nancy 216: 695
liver phenol glucuronidation 214: 533
phosphofructokinase isoenzyme organ 214: 703
sheep adipose glucose metab 210: 677
UDP glucuronyltransferase liver rhesus 214: 1007
urea cycle enzyme hormone 216: 281
Fibrin
oligomer formation thrombin plasma 213: 75
Fibroblast
BHK glycan ricin resistance 211: 575
binding nucleoside transport inhibitor 216: 299
carbohydrate binding protein 211: 625
catabolin formation synovium 216: 481
cholesterol acyltransferase lipo= protein 216: 93
epidermal growth factor protein 210: 251
glucose transport purine PRPP 214: 133
glycosaminoglycan formation culture collagen 215: 107
macroglobulin receptor affinity chromatog 214: 629
malonic semialdehyde metab 216: 81
Mycoplasma infected collagenase 212: 641
phosphomannosyl receptor turn= over 214: 353
procollagenase biosynthesis glycosidation secretion 214: 281
proliferation glycolytic enzyme formation 214: 195
protein degrdn lysosome 212: 345
proteoglycan endocytosis 215: 295
proteoheparan sulfate core pro= tein 215: 417
surface dipeptidyl peptidase IV 216: 177
Fibronectin
collagen formation chondrocyte embryo 211: 417
domain interaction monoclonal antibody 215: 147
glycan fibroblast ricin resistance 211: 575
polyamine availability kidney transformation 210: 137
sea urchin 215: 205
site carboxy group modified protein 215: 613
Ficin
active site probe 209: 873
Filament
I calmodulin troponin interaction 209: 417
Filaria
retinyl phosphate mannose 214: 367
Fish
MHG protein liver testis 215: 531
Flavoprotein
Acanthamoeba 214: 47
electron transfer liver 209: 541
Flow
cytofluorometry surface protein endocytosis 214: 189
cytometry lysis erythrocyte ghost 216: 195
Fluidity
lipid membrane liver 214: 851
Fluorescence
dansylation calmodulin ligand binding 211: 473
polarization phospholipid trans= fer protein detn 209: 257
Fluorog
radioactivity detection electro= phoresis gel 209: 281
Fluorogenic
substrate serine proteinase 209: 299
Fluorometry
proteinase detn methylumbelli= feryl casein 209: 265
Fluorosulfonylbenzoyladenosine
binding succinyl CoA synthetase 215: 513
Fly
phosphoinositide metab salivary gland 212: 849
superoxide dismutase aminotria= zole catalase 216: 503
Folate
leukemia cell growth macrocyto= sis 214: 465
Formaldehyde
lysine formylation ascorbate inhibition 214: 289
Formate
purine formation muscle 216: 605
Formylation
lysine formaldehyde ascorbate inhibition 214: 289
Forskolin
adenylate cyclase guanine nu= cleotide 216: 753
Fructose
bisphosphate hepatocyte hor= mone 214: 829
diphosphate interaction pyruvate kinase 211: 631
phosphate liver obesity cAMP 214: 1019
Fucose
lactoferrin clearance binding 212: 249
Fusidate
resistance Escherichia chloram= phenicol acetyltransferase 215: 29
Fusocillus
linolenate gamma hydrogenation 216: 519
GABA
synapse biochem review 209: 29
Galactose
transport Escherichia hydrogen ion 210: 699
Galactosidase
beta liver dog human 213: 473
endo beta Bacteroides 213: 485
Galactosylpyridinoline
collagen 215: 167
Ganglioside
GM1 metab liver 213: 321
liver mouse genetics 209: 885
Gangliosidosis
GM1 model 213: 473
Gas
chromatog peptide sequencing 215: 261
vesicle protein structure Anabae= na 209: 809
GDP
adenylate cyclase review 216: 527
brown adipose corticosterone 214: 265
calcium uptake mitochondria obesity 214: 171
Gel
electrophoresis radioactivity detection fluorog 209: 281
Gene
expression Hb development review 215: 1
uncD mutation ATPase Escher= ichia 210: 395
uncE mutation Escherichia ATPase 213: 451
uncE mutation sequence Escher= ichia 211: 717
Genetic
obesity adipose calcium trans= port 214: 163
cell secretion review 216: 1
Hb development human review 215: 1
liver ganglioside mouse 209: 885

Gingiva
epithelium proteoglycan 211: 119
Ginkgo
leaf polyprenol 213: 305
Gizzard
cyclic nucleotide phosphodiester= ase isoenzyme 215: 627
myosin prepn sequence 211: 267
Glanzmann
thrombasthenia glycoprotein IIb IIIa platelet 214: 331
Glioma
adrenergic receptor desensitiza= tion isoprenaline 216: 669
Glucagon
adenylate cyclase liver 214: 93
adenylate cyclase membrane cholesterol 212: 331
calcium transport liver mito= chondria 210: 463
cAMP phosphodiesterase liver 214: 99
enzyme fetus 216: 281
fructose bisphosphate hepatocyte 214: 829
glucose transport adipocyte insulin 212: 189
glutaminase liver mitochondria 210: 957
liver mitochondria calcium 210: 73
mitochondria respiration 210: 819
mitochondria vol liver 214: 395
pyruvate carboxylation hepato= cyte 212: 417
resistance hepatoma receptor defect 214: 845
threonine metab liver 214: 687
tyrosine aminotransferase polya= mine 214: 679
Glucan
synthase membrane endosperm ryegrass 209: 627
Glucanase
exo postsecretional modification Saccharomyces 215: 471
Glucoamylase
maltase formation intestine microvillus 210: 389
maltase size shape intestine 213: 719
Glucocorticoid
lipogenesis hepatocyte insulin 212: 135
receptor liver stabilization ci= trate 210: 259
Glucocorticosteroid
enzyme induction liver 212: 305
tyrosine aminotransferase polya= mine 214: 679
Gluconeogenesis
hepatocyte 212: 585
kidney glutamate deamination 210: 695
kidney tubule aminopicolinate 210: 483
liver catecholamine calcium 212: 555
liver exercise 212: 633
liver opioid 216: 507
liver PHI 214: 999
mitochondria vol hormone 214: 395
pyruvate carboxylase insulin 214: 451
tryptophan liver metabolic inhi= bitor 214: 511
Glucose
adipocyte insulin receptor cate= cholamine 216: 737
ATP citrate lyase induction 212: 65
glycogen formation liver obesity 216: 491
insulin lipogenesis fetus preg= nancy 216: 695
metab adipose sheep fetus 210: 677
metab brain prepn development 216: 21
metab hypoglycemia premature newborn 214: 525
metab insulin release 212: 439
metab insulinoma insulin release 210: 345
nucleoside transporter erythro= cyte membrane 214: 995
oxidn epididymis fat selenium 214: 471
peritoneum dialysis lipogenesis insulin 214: 459
phosphate dehydrogenase Leu= conostoc 209: 363
phosphate dehydrogenase NADPH GSSG 214: 959
phosphorylase glycogen synthase diabetes 210: 783
repression Saccharomyces mito= chondria proteolysis 214: 785
transport adipocyte insulin 214: 111
transport adipocyte insulin glucagon 212: 189
transport fibroblast purine PRPP 214: 133
transport heart insulin 212: 385
transport liver lysosome 212: 211
transport metab intestine 212: 183
transport metab stomach 212: 875
tryptophan liver metabolic inhi= bitor 214: 511
uptake liposome lipid alc 216: 113
Glucosidase
beta midgut Rhynchosciara 213: 43
glycogen metab liver 212: 99
Glucuronidase
bile Rana bilirubin 212: 265
Glucuronidation
phenol liver development 214: 533
Glucuronosyltransferase
UDP liver amphibian 212: 265
UDP liver development 214: 533
Glucuronoxylan
formation pea glucuronyltransf= erase 213: 115
Glucuronyltransferase
glucuronoxylan formation pea 213: 115
UDP liver fetus rhesus 214: 1007
UDP liver phenobarbital 214: 517
Glutamate
ammonia formation kidney 212: 705
carboxylation peptide vitamin K carboxylase 215: 75
deamination kidney gluconeo= genesis 210: 695
dehydrogenase kinetics mechan= ism norvaline 211: 99
dehydrogenase Neurospora acti= vation cation 209: 527
methylation chemotaxis protein Bacillus 213: 759
Glutaminase
liver mitochondria hormone 210: 957
mitochondria membrane phos= pholipid liver 214: 649
Glutamine
ammonia formation kidney 212: 705
metab kidney tubule aminopico= linate 210: 483
metab lymphocyte Con A 212: 835
metab muscle diabetes ketoaci= dosis 214: 757
stomach wall metab 210: 451
synthetase muscle acidosis 216: 523
transport kidney membrane acidosis 212: 713
transport liver 216: 401
turnover health acidosis 210: 277
Glutamyltransferase
sepn sulfhydryl oxidase milk 209: 731
Glutathione
chloroplast hydrogen peroxide paraquat 210: 899
conjugate aflatoxin B1 charac= terization 210: 227
disulfide lysis NMR 211: 499
formation mosquito senescence 210: 289
hepatocyte hydroxynonenal 214: 479
insulin transhydrogenase liver 213: 235
Musca aminotriazole catalase 216: 503
reductase disulfide redn 213: 519
transferase affinity chromatog trout 211: 523
transferase inhibition bile acid 215: 581
transferase mosquito develop= ment senescence 210: 281
transferase multiple form eryth= rocyte 215: 213
transferase subunit structure liver 213: 625
transferase X liver 215: 617

Glycan
BHK fibroblast ricin resistance 211: 575
Glyceride
formation hepatocyte cAMP 216: 129
lipase pancreatic islet 216: 433
metab lipoprotein adipose star= vation 210: 639
metab liver ethanol 212: 617
Glycerol
phosphate acyltransferase nora= drenaline 214: 235
phosphate acyltransferase regu= lator adipocyte 214: 247
Glycerolipid
formation hepatocyte cAMP 216: 129
Glycerophosphate
dehydrogenase liver T4 210: 331
Glycine
purine formation muscle 216: 605
Glycogen
formation liver obesity glucose 216: 491
metab liver antiinflammatory glucosidase 212: 99
metab liver obesity 216: 273
metab skin starvation refeeding 212: 679
muscle insulin exercise 212: 453
particle morphometric study liver 209: 159
synthase phosphatase corticos= teroid 214: 539
synthase phosphatase regulation liver 212: 407
synthase phosphorylase glucose diabetes 210: 783
Glycogenolysis
liver opioid 216: 507
liver PHI 214: 999
phosphorylase b liver ischemia 214: 645
GlycoHb
affinity chromatog phenylboro= nate 209: 771
Glycohydrolase
NAD membrane spleen 212: 459
Glycolysis
hepatocyte 212: 585
inhibition benzoate antifungal ATP 214: 657
muscle insulin exercise 212: 453
respiration yeast Pasteur effect 212: 749
Glycolytic
enzyme formation fibroblast proliferation 214: 195
Glycopeptide
animal cell 212: 881
intestine epithelium cell adhe= sion 211: 75
Glycophorin
A variant erythrocyte 213: 399
Glycoprotein
aorta 211: 257
basement membrane aorta 211: 735
binding endocytosis hepatocyte 214: 421
carrier teratocarcinoma differen= tiation antigen 215: 491
cervix mucus heat 209: 565
characterization cervix mucus 211: 13
degrdn peroxide ovary cyst 211: 323
formation liver regeneration enzyme 214: 1003
glycan fibroblast ricin resistance 211: 575

GP72 sugar Trypanosoma phos= phoglycoprotein 213: 313
hepatoma adhesiveness dibuty= ryl cAMP 212: 859
IIb IIIa monocyte thrombasthe= nia 214: 331
insulin adipocyte 214: 111
keratinocyte adhesion 212: 355
lectin binding leukemia cell 213: 661
lung bleomycin methylpredniso= lone 213: 609
mucus intestine age 215: 405
mucus structure model 209: 893
oligosaccharide structure cell membrane virus 209: 659
structure mucosa cervix cattle 215: 701
structure mucus cervix 213: 427
surface variant carbohydrate Trypanosoma 209: 261
Thy1 chicken brain 213: 143
Thy1 thymocyte 211: 641
VSG117 disulfide bond location Trypanosoma 209: 481
Glycosaminoglycan
basement membrane aorta 211: 735
formation fibroblast culture collagen 215: 107
formation monocyte differentia= tion 210: 661
keratinocyte adhesion 212: 355
osteogenesis imperfecta collagen 213: 171
Glycosidation
aminopeptidase N microsome 212: 161
procollagenase synovial fibrob= last 214: 281
Glycosylation
alc dehydrogenase activation liver 209: 309
aminopeptidase processing intes= tine 216: 325
calcitonin receptor 212: 609
fetoprotein yolk sac 212: 313
ganglioside GM1 liver 213: 321
protein structure requirement 209: 331
protein thymocyte ammonium chloride 216: 681
pyridinoline collagen crosslink 215: 167
Glycosyltransferase
asparagine inhibition epoxypep= tide deriv 209: 323
Golgi liver microtubule 212: 721
liver proline peptide 209: 331
Glycylhistidyllysine
interaction copper NMR EPR 209: 533
GM1
gangliosidosis model 213: 473
Goat
mammary fatty acid synthetase 209: 215
Goblet
cell reduced mucin property 209: 117
Golgi
glycosyltransferase liver microtu= bule 212: 721
intestine microvillus protein formation 216: 37
membrane lipid fluidity liver 214: 851
Granule
insulin calcium protein phospho= rylation 210: 533
insulin secretory compn 210: 297
pancreas islet hydroxytrypta= mine transport 210: 803
Granulocyte
glycoprotein lectin binding 213: 661
Grasshopper
egg ecdysteroid phosphate 213: 533
Growth
factor amino acid transport 210: 361
factor hemopoietic cell charac= terization 210: 747
factor protein breakdown myob= last 210: 243
hormone releasing factor purifn 209: 643
hormone variant receptor 214: 885
leukemia cell folate 214: 465
GSH
diffusion microviscosity erythro= cyte 216: 655
oxygen microsome carbon tetra= chloride 215: 441
GSSG
glucose phosphate dehydroge= nase NADPH 214: 959
GTP
PGE1 adenylate cyclase 214: 231
Guanidinium
chloride phosphorylase b dena= turation 213: 595
Guanidinothiobenzoate
benzyl proteinase active site 215: 287
Guanine
nucleotide adenylate cyclase forskolin 216: 753
nucleotide regulatory protein insulin 214: 547
Guanylate
cyclase regulation liver 215: 447

Guanylhydrazone
difluoromethyl ornithine antitu= mor 212: 895
Guanylyl
imidodiphosphate inhibition ATPase 210: 727
Halide
interaction molybdenum sulfite oxidase 211: 227
Halothane
hydroxytryptamine metab lung 210: 157
lung protein formation 210: 379
Hawk
moth muscle substrate cycling 210: 49
Hb
degrdn erythrocyte lipid perox= idn 212: 759
embryo 215: 377
genetics development human review 215: 1
Heart
acetyl CoA metab detn 210: 265
adenosine metab regulation 214: 317
defatted powder lipase hormone 212: 379
development nonhistone protein nucleus 210: 175
glucose transport insulin 212: 385
hypertrophy cytosol RNA trans= port 209: 285
lipolysis adrenaline 216: 241
mitochondria calcium transport catecholamine 216: 333
ornithine decarboxylase isopre= naline calcium 212: 241
phosphocreatine metab diabetes 210: 477
phosphofructokinase calcium activation 216: 717
phospholipase C multiple form 215: 325
protein formation blood pressure 216: 537
protein metab workload 210: 55
proteolysis inhibition colchicine 210: 63
pyruvate dehydrogenase cate= cholamine 214: 581
pyruvate metabolic compart= mentation 210: 193
receptor muscarinic agonist antagonist 216: 11
troponin phosphorylation protein kinase 209: 189
troponin T structure 213: 123
ventricle atrium protein forma= tion 214: 497
Heat
glycoprotein cervix mucus 209: 565
photochem bilirubin IXalpha 209: 695
Helix
adenylate deaminase foot muscle 215: 39
oxygen binding hemocyanin 209: 373
protein low frequency vibration 209: 573
Hematoporphyrin
aggregation aq soln 209: 547
binding serum protein 214: 503
Heme
cytochrome P450 alkylation liver 211: 455
disorder myoglobin reconstitu= tion 215: 117
metab liver selenium deficiency 214: 53
Hemicorpus
protein formation muscle 214: 433
Hemin
aminolevulinate synthase forma= tion liver 214: 967
Hemocyanin
fragment oxygen affinity Lym= naea 209: 519
Helix oxygen binding 209: 373
Hemolymph
Sarcophaga antibacterial protein 211: 727
Hemopexin
acetylhematoporphyrin 214: 503
Hemopoietic
cell growth factor characteriza= tion 210: 747
Hemoprotein
oxidase cytochrome aa3 Acan= thamoeba 210: 721
Hen
egg yolk apolipoprotein chroma= tog 209: 143
Heparan
sulfate disaccharide compn sulfation 209: 315
sulfate NMR sulfation 211: 677
Heparin
acetylcholinesterase solubiliza= tion 215: 201
binding thrombin antithrombin 211: 91
lipoprotein lipase adipose 210: 639
oligosaccharide platelet factor 4 209: 455
thrombin antithrombin complex formation 213: 345
Hepatocyte
calcium transport phospholipase 210: 115
cAMP phosphodiesterase insulin 216: 245
ceruloplasmin copper hormone 212: 297
culture cytochrome P450 maintenance 210: 855
cysteine oxidn toxicity 212: 39
cytochrome P450 cytochem detn 212: 15
endosome derived vesicle protein 216: 27
enzyme glucose diabetes 210: 783
fructose bisphosphate hormone 214: 829
glutamine transport 216: 401
glycerolipid formation cAMP 216: 129
glycoprotein binding endocytosis 214: 421
hydroxynonenal 214: 479
insulin receptor phosphorylation 216: 575
interaction chylomicron apolipo= protein 216: 71
ketone body formation newborn 214: 937
lipogenesis dexamethasone insu= lin 212: 135
methyloxovalerate metab albu= min 212: 655
microsome cholesterol transport radioassay 216: 137
mitochondria protein degrdn 216: 151
mitochondria pyruvate carboxy= lation insulin 214: 451
phospholipid methyltransferase adrenoceptor 216: 675
protein metab calcium 216: 529
pyruvate carboxylation hormone 212: 417
substrate metab pathway 212: 585
uroporphyrinogen decarboxylase chem 214: 145
Hepatoma
cGMP phosphodiesterase 213: 379
glucagon resistance receptor defect 214: 845
glycoprotein adhesiveness dibu= tyryl cAMP 212: 859
low density lipoprotein metab 214: 951
protein degrdn mitochondria membrane 216: 163
Heredity
spherocytosis erythrocyte mem= brane 211: 349
Herpes
simplex virus 1 bromovinylami= nodideoxyuridine 211: 439
Hexachlorobenzene
iron liver uroporphyrinogen decarboxylase 214: 909
Hexosaminidase
cathepsin D lysosomal enzyme 213: 733
High
performance liq chromatog co= proporphyrin 209: 553
performance liq chromatog por= phyrin 211: 435
pressure liq chromatog amino acid 213: 525
pressure liq chromatog peptide 211: 163
Histamine
receptor cAMP chondrocyte 212: 517
release mast cell calcium 210: 737
Histidine
residue somatotropin NMR 213: 107
Histochem
localization cathepsin D dinitro= phenyl pepstatin 211: 139
Histocompatibility
antigen phosphorylation lym= phoblast 210: 79

Histone
H10 organ mammal 211: 763
HLA
A2 antigen binding monoclonal antibody 216: 423
HMG
protein liver testis Salmo 215: 531
Hormone
eccrine sweat gland 212: 143
hepatocyte ceruloplasmin copper 212: 297
mitochondria vol liver 214: 395
steroid parturition zinc nutrition 210: 761
Hura
lectin 215: 433
ribosome inactivating protein 216: 617
Hyaluronate
binding link protein 213: 445
binding site proteoglycan RIA 213: 371
chondrocyte surface binding proteoglycan 214: 777
formation chain growth mechanism 211: 191
hydration 213: 363
synthase teratocarcinoma 211: 181
Hyaluronic
acid conformation elec birefringence 213: 671
Hydration
hyaluronate 213: 363
Hydrogen
calcium anoxia synaptosome recovery 212: 289
ion Escherichia galactose transport 210: 699
ion Escherichia potassium transport 216: 709
peroxide chloroplast glutathione ascorbate 210: 899
peroxide liver mitochondria noradrenaline 214: 745
peroxide oleate metab pea 213: 249
prodn nitrogenase Klebsiella carbon monoxide 211: 589
Hydrogenase
affinity chromatog Procion Red agarose 213: 391
Desulfovibrio membrane 209: 445
Hydrogenation
linolenate gamma Butyrivibrio Fusocillus 216: 519
Hydrolase
adenosylhomocysteine liver inactivation isobutylthioadenosine 210: 429
CMP acetylneuraminate liver generation 214: 1003
thioester role fatty acid synthetase 209: 215
Hydroperoxide
butyl erythrocyte Hb degrdn 212: 759
cumene chloroaniline oxidn cytochrome P450 212: 539
Hydrophis
neurotoxin venom taxonomy 213: 31
Hydrophobic
chromatog egg yolk protein 209: 143
environment retinyl phosphate manganese 214: 719
Hydroxyapatite
calcium proline rich phosphoprotein 213: 11
Hydroxybutyrate
metab brain prepn development 216: 21
Hydroxyecdysonoate
insect 213: 261
Hydroxyl
radical prodn catalysis lactoferrin 210: 15
radical scavenger differential oxidn 216: 415
Hydroxylase
hydroxycholecalciferol kidney diet calcium 214: 893
lysyl oxygen 213: 507
Hydroxylation
lysine collagen chain peptide 211: 599
Hydroxymethylbilane
synthase detn erythrocyte 213: 85
Hydroxymethylglutaryl
CoA reductase liver cholesterol formation 210: 625
HydroxymethylglutarylCoA
reductase regulation monocyte macrophage 210: 523
Hydroxynonenal
hepatocyte 214: 479
Hydroxyprostaglandin
dehydrogenase kinetics skin 212: 129
Hydroxytryptamine
metab lung halothane 210: 157
transport pancreas islet granule 210: 803
Hyperpyrexia
malignant dantrolene 212: 399
Hypertrophy
heart cytosol RNA transport 209: 285
Hypoglycemia
brain energy metab 212: 365
premature newborn glucose metab 214: 525
Hypolipidemic
drug liver peroxisome proliferation 210: 875
Wy 14643 liver mRNA 214: 879
Hypomicrobium
triethylamine diethylamine dehydrogenase 211: 535
Hypothalamus
somatoliberin purifn structure 209: 643
Hypoxia
brain energy metab 212: 365
protein metab heart workload 210: 55
H10
histone organ mammal 211: 763
IAA
cytidylyl transferase plant growth 216: 627
IgA
transport liver endocytic vesicle 214: 823
IgG
metab yolk sac rat 214: 815
IgG3
kappa chain variable region sequence 211: 173
IgM
carbohydrate structure 211: 55
Imidodiphosphate
adenylyl guanylyl inhibition ATPase 210: 727
Immobilization
serum albumin ligand binding 213: 387
Immunoadsorbent
chromatog endopeptidase brain 215: 519
Immunoaffinity
chromatog fetoprotein 216: 227
Immunoassay
chemiluminescence energy transfer 216: 185
Immunochem
branched chain oxoacid dehydrogenase 213: 339
cytochrome P450 multiple form 215: 83
Immunofluorescence
endopeptidase kidney intestine 214: 377
Indomethacin
glycogen metab liver lysosome 212: 99
Infection
measles virus persistence phospholipid 214: 665
Inflammation
C reactive protein formation 210: 707
eosinophil connective tissue review 213: 769
Influenza
virus RNA review 211: 281
Inhibition
amiprophosmethyl calcium transport and 212: 567
Inositol
phosphate metab neurotransmitter 212: 473
phospholipid salivary gland fly 212: 849
transport sciatic nerve diabetes 210: 775
Insect
ecdysonoate hydroxyecdysonoate 213: 261
Instruction
author policy journal 209: 1
Insulin
adenylate cyclase regulation 214: 547
adipocyte glucose uptake 216: 113
adipocyte glycoprotein 214: 111
B chain cathepsin B 213: 467
cAMP phosphodiesterase hepatocyte 216: 245
cAMP phosphodiesterase liver 214: 99
dimer receptor lipogenesis metab 216: 687

disulfide lysis NMR 211: 499
fragment prepn biol activity 215: 697
glucose adipocyte receptor catecholamine 216: 737
glucose lipogenesis fetus pregnancy 216: 695
glucose transport adipocyte glucagon 212: 189
glucose transport heart 212: 385
glyceride liver ethanol 212: 617
granule calcium protein phosphorylation 210: 533
granule proton translocase specificity 210: 235
lipid synthesizing enzyme modulation 214: 443
lipogenesis hepatocyte dexamethasone 212: 135
lipogenesis peritoneum dialysis glucose 214: 459
liver ATP citrate lyase 212: 65
liver metab bacitracin 216: 369
low frequency motion model 215: 465
muscle metab exercise 212: 453
muscle protein formation feeding 210: 669
phospholipid metab adipose 212: 489
plasma rhythm lipogenesis mammary 214: 183
polyphosphoinositide metab. pancreatic islet 216: 101
protein breakdown myoblast 210: 243
protein formation degrdn muscle 212: 649
protein formation muscle hemicorpus 214: 433
protein formation muscle starvation 216: 583
protein metab heart workload 210: 55
protein metab muscle 210: 323
protein phosphorylation preadipocyte 214: 11
pyruvate carboxylation mitochondria hepatocyte 214: 451
receptor adipocyte ATP 214: 203
receptor cell hybrid cybrid 214: 309
receptor degrdn liver 212: 529
receptor down regulation adipocyte 210: 373
receptor phosphorylation calcium 214: 361
receptor protein kinase 216: 575
receptor subunit structure liver 212: 79
release glucose metab 212: 439
release insulinoma glucose metab 210: 345
release ketone body 212: 371
release phenylpyruvate mechanism 210: 913 210: 921
secretion protein kinase 212: 819
secretion somatostatin receptor 214: 225
secretory granule compn 210: 297
semisynthesis 211: 671
sugar transport muscle kinetics 214: 737
T3 liver lipogenesis 210: 937
Insulinoma
insulin release glucose metab 210: 345
Interferon
DNA formation thymidine Daudi 214: 983
peptide sequencing 215: 273
Intervertebral
disk proteoglycan metab 215: 217
Intestine
alk phosphatase fetus 211: 553
aminopeptidase N formation processing 212: 161
aminopeptidase processing glycosylation 216: 325
endopeptidase immunofluorescence 214: 377
endopeptidase 2411 carbohydrate 215: 317
epithelium cell glycopeptide adhesion 211: 75
epithelium phosphofructokinase isoenzyme D 215: 335
glucoamylase maltase size shape 213: 719
glucose transport metab 212: 183
methylhistidine metab 214: 607
microvillus enzyme formation 210: 389
microvillus protein formation organelle 216: 37
mucin property 209: 117
mucus glycoprotein age 215: 405
phosphofructokinase 211: 373
trihydroxycholecalciferol formation 214: 261
vitamin D calcium binding protein 211: 709
Intima
collagen structure placenta human 211: 295
collagen type VI structure 211: 303
Iodination
neutrophil phagocytosis 210: 215
Iodine
reaction complement C2 B 213: 201
125 zymosan phagocytosis detn 214: 277 214: 278
Ionization
cytochrome c lysine modification 213: 679
overlapping enzyme kinetics pH 211: 701
Iron
bipyridyl peroxide radical 216: 415
cysteine lipid peroxidn microsome 212: 549
hexachlorobenzene liver uroporphyrinogen decarboxylase 214: 909
liver aminolevulinate synthase lipid peroxidn 212: 321
loading ferritin lipid peroxidn 209: 557
molybdenum cofactor nitrogenase ESR 211: 495
molybdenum protein nitrogenase Klebsiella 209: 43
protein nitrogenase adenine Rhodospirillum 209: 881
sulfur protein reaction kinetics 211: 219
uroporphyrinogen decarboxylase hepatocyte 214: 145
Ischemia
liver glycogenolysis phosphorylase b 214: 645
Isobutylthioadenosine
inactivation adenosylhomocysteinase liver 210: 429
Isocitrate
dehydrogenase placenta distribution 214: 339
Isocoproporphyrin
isomer detn chromatog 211: 435
Isodesmosine
liver cirrhosis 214: 1023
Isoenzyme
cyclic nucleotide phosphodiesterase gizzard 215: 627
D phosphofructokinase intestine epithelium 215: 335
Isolbutylmethylxanthine
lipase heart defatted powder 212: 379
Isomerase
protein disulfide liver 213: 225
protein disulfide liver microsome 213: 245
protein disulfide specificity liver 213: 235
Isomerization
linolenate hydrogenation rumen bacteria 216: 519
Isometallothionein
kidney liver liq chromatog 209: 71
Isoprenaline
adrenergic receptor glioma desensitization 216: 669
glucose adipocyte insulin receptor 216: 737
ornithine decarboxylase heart calcium 212: 241
Isoprotein
metallothionein reversed phase liq chromatog 209: 71
IUB
IUPAC Issue 1 209: i
IUPAC
IUB Issue 1 209: i
I50
enzyme inhibition 215: 429
Kallikrein
angiotensin formation 213: 193
saliva human 211: 35
submandibular gland 209: 125
Keratin
wool helix interaction reassembly 209: 587

Keratinocyte
adhesion glycoprotein glycosami= noglycan 212: 355
Ketoacidosis
diabetes glutamine metab muscle 214: 757
Ketogenesis
enzyme rumen epithelium mito= chondria 216: 769
fatty acid metab liver 214: 553
Ketone
body alc testosterone 210: 29
body blood mammary amino acid 216: 343
body formation hepatocyte new= born 214: 937
body insulin release 212: 371
body transport metab stomach 212: 875
pyruvate dehydrogenase muscle mitochondria 214: 725
Kidney
acetyl CoA metab detn 210: 265
acetylenkephalin carboxypepti= dase acetyltyrosine deacety= lase 209: 471
aldehyde reductase active cleav= age product 209: 597
ammonia formation glutamate glutamine 212: 705
brush border calcium transport 214: 37
brush border membrane vesicle 214: 209
brush border neutral proteinase 211: 743
dihydroxyvitamin D3 diet calcium 214: 893
endopeptidase monoclonal anti= body 214: 377
endopeptidase 2411 carbohyd= rate 215: 317
glutamate deamination gluco= neogenesis 210: 695
isometallothionein liq chromatog 209: 71
lipid peroxidn prostaglandin formation 212: 167
membrane glutamine transport acidosis 212: 713
metallothionein I detn 213: 459
microsome acetylgalactosaminyl= transferase 215: 483
microvillus mouse metalloendo= peptidase deficiency 209: 251
microvillus peptidase liposome reconstitution 211: 755
ornithine decarboxylase amino acid 210: 617
oxo acid CoA transferase kinet= ics 213: 179
somatotropin uptake 214: 121
transformation fibronectin pol= yamine availability 210: 137
trihydroxycholecalciferol forma= tion 214: 261
tubule glutamine metab amino= picolinate 210: 483
Kinase
creatine antibody avidity mer= captan 215: 505
creatine isoenzyme muscular dystrophy 213: 417
dephospho CoA liver 215: 153
interaction phosphoglycerate arsonomethyl analog 213: 211
muscle pyruvate denaturation 209: 763
myosin protein activation azido= calmodulin 215: 475
phosphoglycerate sequence Sac= charomyces 211: 199
protein corpus luteum 214: 569
protein heterogeneity myelin 209: 789
protein inhibition polyamine 213: 281
protein inhibitor peptide 213: 159
protein insulin receptor 216: 575
protein insulin secretion 212: 819
protein spleen 209: 435
protein subunit crosslinking 209: 581
protein troponin phosphorylation heart 209: 189
pyruvate kinetics Escherichia 211: 631
pyruvate regulation muscle 209: 401 209: 413
Kinetics
detn enzyme competing sub= strate 211: 511
enzyme detn unstable substrate 211: 277
enzyme nomenclature symbolism terminol 213: 561
enzyme pH overlapping ioniza= tion 211: 701
enzyme progress curve differen= tial 215: 589
enzyme rate equation degree 211: 23
Klebsiella
azoferredoxin molybdoferredoxin dissocn 215: 393
molybdoferredoxin electron transfer 209: 207
nitrogenase cofactor ESR 211: 495
nitrogenase hydrogen prodn carbon monoxide 211: 589
Lablab
seed lectin isolation property 209: 653
Laccase
reconstitution cuprous transfer 211: 515
Rhus Raman spectra 213: 503
sycamore cell culture 209: 489
Lactalbumin
metab mammary cortisol 212: 507
Lactamase
beta inactivation acetylmethyle= nepenicillanate 211: 447
beta inhibition acetylmethylene= penicillinate Escherichia 209: 609
beta inhibition boronic acid 209: 229
beta kinetics pH 213: 61
beta unfolding intermediate Staphylococcus 215: 525
kinetic detn competing substrate 211: 511
Lactate
dehydrogenase activation phosp= hate muscle 215: 685
formation small intestine 212: 183
oxidn brain fetus newborn 214: 633
transport metab stomach 212: 875
Lactation
adipocyte lipolysis adenosine 216: 121
cholesterol formation mammary 212: 843
insulin receptor adipocyte 210: 373
lipogenesis mammary rhythm appetite 214: 183
mammary lipogenesis starvation refeeding 216: 515
Lactoferrin
clearance binding fucose 212: 249
hydroxyl radical prodn catalysis 210: 15
zinc binding human milk 209: 505
Lanthanide
collagen polymn 213: 751
Latex
particle oxygen radical neutro= phil 216: 459
Laticauda
neurotoxin 213: 39
Leafworm
cotton ecdysonoate hydroxyec= dysonoate 213: 261
Lectin
binding glycoprotein leukemia cell 213: 661
deglycosylated property potato 211: 273
Euphorbia seed 215: 141
Hura Euphorbia 215: 433
isolation property lablab seed 209: 653
Lens
aldehyde dehydrogenase 215: 351
aldehyde dehydrogenase kinetics mechanism 215: 361
Leucine
metab radioassay body 214: 1015
Leuconostoc
glucose phosphate dehydroge= nase 209: 363
Leukemia
cell glycoprotein lectin binding 213: 661
cell growth macrocytosis folate 214: 465
Leukocyte
adenosine metab regulation 214: 317
catabolin 215: 385
catabolin like protein 209: 337
cystine transport lysosome cysti=

nosis 216: 393
iodination phagocytosis 210: 215
phagocytosis dichlorophenol indophenol reductase 210: 577
polymorphonuclear adenosine formation 214: 325
Leydig
cell testosterone LHRH agonist 216: 747
LH
LHRH agonist testosterone Leydig cell 216: 747
LHRH
agonist testosterone Leydig cell 216: 747
Ligand
binding serum albumin 209: 135
Light
adenine nucleotide status chloroplast 210: 273
Link
protein binding hyaluronate 213: 445
protein formation chondrocyte culture 214: 855
protein RIA proteoglycan 213: 371
Linolenate
gamma hydrogenation Butyrivibrio Fusocillus 216: 519
Lipase
glyceride pancreatic islet 216: 433
heart adrenaline 216: 241
heart defatted powder hormone 212: 379
lipoprotein adipose starvation heparin 210: 639
Lipid
diet synaptosomal acetylcholinesterase 211: 507
fluidity membrane liver 214: 851
glucose uptake liposome 216: 113
liver fetus mother insulin glucose 216: 695
measles virus infection persistence 214: 665
membrane Dunaliella osmotic pressure 213: 131
metab microsome pea 213: 249
oligosaccharide lung bleomycin methylprednisolone 213: 609
order regulation enzyme membrane 213: 479
organization membrane cholinergic synaptic vesicle 211: 155
peroxidn erythrocyte Hb degrdn 212: 759
peroxidn ferritin iron loading 209: 557
peroxidn iron liver aminolevulinate synthase 212: 321
peroxidn kidney prostaglandin formation 212: 167
peroxidn liver carbon tetrachloride 212: 625
peroxidn microsome iron cysteine 212: 549
rape seed development 212: 223
synthesizing enzyme modulation insulin 214: 443
Lipogenesis
brown adipose tissue obesity 216: 543
glucose insulin fetus pregnancy 216: 695
hepatocyte dexamethasone insulin 212: 135
insulin dimer 216: 687
liver mammary starvation refeeding 216: 515
liver T3 insulin 210: 937
mammary lactation rhythm appetite 214: 183
tissue oleoylanilide 212: 339
uremia glucose dialysis insulin 214: 459
Lipolysis
adipocyte pregnancy lactation adenosine 216: 121
adipose vasopressin starvation 212: 899
heart adrenaline 216: 241
Lipopolysaccharide
hydrolysis diaminodideoxygluco furanuronolactam Pseudomonas 215: 597
Lipoprotein
fibroblast cholesterol acyltransferase 216: 93
lipase adipose starvation heparin 210: 639
low density metab liver 214: 951
phosphatidylcholine cholesterol exchange chylomicron 215: 279
platelet aggregation PGI2 216: 43
receptor expression monocyte macrophage 210: 523
very low density liver 212: 173
Liposome
dansylated calmodulin binding fluorescence 211: 473
glucose uptake lipid alc 216: 113
mannose phosphate receptor 214: 413
membrane protein endocytosis detn 214: 189
phospholipid cytochrome oxidase kinetics 209: 81
phospholipid exchange protein 213: 21
reconstitution peptidase microvillus kidney 211: 755
retinyl phosphate divalent cation 214: 719
Liq
chromatog calcitriol receptor analysis 209: 223
chromatog collagen crosslink 213: 525
chromatog high performance porphyrin 211: 435
chromatog high pressure peptide 211: 163
chromatog hydroxymethylbilane uropoprphyrinogen synthase detn 213: 85
chromatog reversed phase metallothionein isoprotein 209: 71
Liver
acetylneuraminate formation metab 216: 87
adenosylhomocysteinase inactivation isobutylthioadenosine 210: 429
adenylate cyclase glucagon 214: 93
alanine metab regulation 210: 645
alc dehydrogenase activation glycosylation 209: 309
aldehyde dehydrogenase coenzyme binding 211: 363
alkylated porphyrin diethylnitrosamine 212: 599
amino acid transport hormone 210: 361
aminolevulinate synthase formation hemin 214: 967
aminolevulinate synthase iron lipid peroxidn 212: 321
arylsulfatase kinetics mechanism pH 213: 603
ATP citrate lyase induction 212: 65
ATP citrate lyase multiple form 214: 299
beta galactosidase dog human 213: 473
C reactive protein formation 210: 707
cadmium metallothionein formation 210: 769
calcium cycling mitochondria manganese 212: 773
calcium phenylephrine phospholipase 210: 115
calcium transport adrenaline 216: 51
calcium transport A23187 214: 405
calcium transport mitochondria hormone 210: 463
calcium transport mitochondria obesity 214: 163
carbon tetrachloride protection GSH oxygen 215: 441
carnitine palmitoyltransferase malonyl CoA 214: 1027
cell cytochrome P450 maintenance 210: 855
cell lysosome methylamine transport 210: 929
cGMP phosphodiesterase 213: 379
cholesterol formation lactation 212: 843
cholesterol formation substrate supply 210: 625
chromosome protein phosphorylation polyamine 209: 197
CoA synthase 215: 153
compn vasopressin starvation 212: 231
cytochrome P450 heme alkylation 211: 455
desmosine isodesmosine elastase cirrhosis 214: 1023

diaminopropane ornithine de= carboxylase 216: 701
electron transfer flavoprotein 209: 541
electron transport reductase ontogeny 214: 751
embryo sialyltransferase accep= tor specificity 213: 253
endocytic vesicle transport IgA 214: 823
endoplasmic reticulum cAMP phosphodiesterase 213: 89
endosome derived vesicle protein 216: 27
enzyme disulfide redn 213: 519
enzyme induction glucocorticos= teroid 212: 305
fatty acid acetyl CoA 216: 499
fatty acid metab development 212: 93
fatty acid metab ketogenesis 214: 553
fatty acid synthase component inhibition 215: 545
fructose phosphate obesity cAMP 214: 1019
ganglioside GM1 metab 213: 321
ganglioside mouse genetics 209: 885
glucocorticoid receptor stabiliza= tion citrate 210: 259
gluconeogenesis catecholamine calcium 212: 555
gluconeogenesis exercise 212: 633
glucose phosphate dehydroge= nase GSSG 214: 959
glutaminase mitochondria mem= brane phospholipid 214: 649
glutamine transport 216: 401
glutathione transferase bile acid 215: 581
glutathione transferase subunit structure 213: 625
glutathione transferase trout 211: 523
glutathione transferase X 215: 617
glyceride metab ethanol 212: 617
glycogen formation corticosteroid 214: 539
glycogen formation obesity glu= cose 216: 491
glycogen metab antiinflammato= ry glucosidase 212: 99
glycogen metab obesity 216: 273
glycogen particle morphometric study 209: 159
glycogen synthase phosphatase regulation 212: 407
glycogenolysis gluconeogenesis opioid 216: 507
glycogenolysis gluconeogenesis PHI 214: 999
glycosyltransferase proline pep= tide 209: 331
Golgi glycosyltransferase micro= tubule 212: 721
guanylate cyclase regulation 215: 447
heme metab selenium deficiency 214: 53
HMG protein Salmo 215: 531
insulin receptor degrdn 212: 529
insulin receptor subunit struc= ture 212: 79
interaction chylomicron apolipo= protein 216: 71
ischemia glycogenolysis phos= phorylase b 214: 645
isometallothionein liq chromatog 209: 71
ketone body formation newborn 214: 937
lipid fetus mother insulin glucose 216: 695
lipid peroxidn carbon tetrachlo= ride 212: 625
lipogenesis lactation rhythm appetite 214: 183
lipogenesis oleoylanilide 212: 339
lipogenesis starvation refeeding 216: 515
lipogenesis T3 insulin 210: 937
lipogenesis uremia glucose dialy= sis 214: 459
low density lipoprotein metab 214: 951
lysosome glucose transport 212: 211
mannose binding protein sepn 210: 167
mannose transport retinyl doli= chyl phosphate 210: 541
membrane adenylate cyclase cholesterol 210: 437
212: 331
membrane alanine transport 214: 489
membrane avidin biotin binding 210: 121
membrane lipid fluidity 214: 851
membrane retinyl phosphate mannose 216: 727
metab bacitracin insulin 216: 369
metallothionein cadmium NMR 211: 251
metallothionein I radioimmu= noassay 213: 459
methyloxovalerate metab albu= min 212: 655
microsome alc metab desferriox= amine 210: 107
microsome calcium ATPase 210: 405
microsome calmodulin depen= dent ATPase 214: 69
microsome cytochrome P450 immunochem 215: 83
microsome protein disulfide isomerase 213: 245
mitochondria calcium glucagon 210: 73
mitochondria carnitine acyl= transferase malonylCoA 210: 591
mitochondria cytochrome oxi= dase assembly 212: 829
mitochondria endoplasmic reti= culum cytostructure 214: 795
mitochondria glutaminase hor= mone 210: 957
mitochondria hydrogen peroxide noradrenaline 214: 745
mitochondria membrane gluta= minase 214: 649
mitochondria phosphate trans= port 212: 279
mitochondria respiration adre= nergic 210: 867
mitochondria vol hormone 214: 395
mRNA hypolipidemic Wy 14643 214: 879
oleate metab vasopressin 212: 85
ornithine decarboxylase amino acid 210: 617
oxoacyl CoA thiolase mechanism 213: 153
peroxisome beta oxidn obesity 212: 891
peroxisome proliferation hypoli= pidemic drug 210: 875
phenol glucuronidation develop= ment 214: 533
phosphatidylinositol phosphate metab hormone 212: 733
phosphodiesterase pancreatic hormone 214: 99
phosphofructokinase isoenzyme fetus 214: 703
phospholipase A1 activation 209: 865
phospholipid diet fat 212: 573
polysome cytoskeleton protein aggregate 216: 215
protein blood bile 210: 549
protein disulfide isomerase 213: 225
protein disulfide isomerase spe= cificity 213: 235
protein metab calcium 216: 529
protein metab corticosterone 214: 617
protein metab probe aminohexy= noate 209: 243
regeneration glycoprotein forma= tion enzyme 214: 1003
regeneration membrane ATPase 212: 445
regeneration ribosome formation regulation 210: 183
RNA polymerase I protein 210: 837
RNA transcription phenobarbi= tal 210: 599
secretion bile acid conjugation 214: 923
sodium alanine electrogenic cotransport 210: 621
somatotropin uptake 214: 121
somatotropin variant binding 214: 885
sporidesmin bile acid transport 212: 197
substrate metab pathway 212: 585
taurochenodeoxycholate tau= rorsdodeoxycholate 216: 107

threonine metab metabolic state 214: 687
thyroxine nonhistone protein 210: 331
triglyceride diet cholestyramine 216: 511
tryptophan gluconeogenesis metabolic inhibitor 214: 511
tryptophan oxygenase detn 209: 831
tryptophan pyrrolase detn polemic 215: 709
tyrosine aminotransferase hormone 214: 679
UDP glucuronosyltransferase amphibian 212: 265
UDP glucuronyltransferase fetus rhesus 214: 1007
UDP glucuronyltransferase phenobarbital 214: 517
urea formation valproate 216: 233
uroporphyrinogen decarboxylase 215: 45
uroporphyrinogen decarboxylase iron hexachlorobenzene 214: 909
vasopressin receptor obesity 216: 475
very low density lipoprotein 212: 173
vitamin K carboxylase stimulation 209: 719

Locust
ecdysonoate hydroxyecdysonoate 213: 261

Low
density lipoprotein metab liver 214: 951
frequency motion protein model 215: 465

Lung
cytosol phospholipid transfer protein 215: 637
hydroxytryptamine metab halothane 210: 157
lipogenesis oleoylanilide 212: 339
oligosaccharide lipid bleomycin methylprednisolone 213: 609
phosphatidylglycerol formation myoinositol 212: 811
protein formation halothane 210: 379
protein formation secretion 210: 607

Lyase
ATP citrate induction glucose 212: 65
ATP citrate multiple form liver 214: 299

Lymnaea
hemocyanin fragment oxygen affinity 209: 519

Lymphoblast
phosphorylation histocompatibility antigen 210: 79
purine nucleoside phosphorylase deficiency 214: 711

Lymphocyte
complement C3b receptor 210: 567
glutamine metab Con A 212: 835
phosphatidylinositol formation cation 212: 691
phosphorylation histocompatibility antigen 210: 79
plasma membrane potential concanavalin 210: 885
potassium transport calcium concanavalin 210: 885
prepn cAMP content 216: 207
pyruvate dehydrogenase mitogen calcium 216: 359
sodium transport concanavalin 210: 893
stimulation mitogen calcium cytoplasm 212: 685

Lysine
formaldehyde formylation ascorbate inhibition 214: 289
hydroxylation collagen chain peptide 211: 599
modification cytochrome c conformation 213: 679

Lysis
erythrocyte ghost flow cytometry 216: 195

Lysosome
cystine transport leukocyte cystinosis 216: 393
enzyme biosynthesis transport macrophage 214: 671
enzyme secretion macrophage stimulation 212: 869
enzyme transport cyanate 210: 795
glycogen metab antiinflammatory glucosidase 212: 99
liver sugar transport 212: 211
methylamine transport liver 210: 929
protein degrdn fibroblast 212: 345
pyruvate carboxylase degrdn mitochondria 210: 845

Lysozyme
low frequency motion model 215: 465

Lysyl
hydroxylase oxygen collagen 213: 507
oxidase embryo collagen crosslinking 210: 633

Macaca
UDP glucuronyltransferase liver fetus 214: 1007

Macrocytosis
leukemia cell folate 214: 465

Macroglobulin
calorimetry 209: 725
conformation ligand binding clearance 209: 99
receptor fibroblast affinity chromatog 214: 629

Macrophage
cholesterol metab 210: 523
lactoferrin binding fucose 212: 249
lysosome enzyme biosynthesis transport 214: 671
malate dehydrogenase endocytosis 210: 419
stimulation lysosome enzyme secretion 212: 869
zymosan binding detn polemic 214: 277 214: 278

Magnesium
insulin secretory granule 210: 297
phosphatidylinositol formation lymphocyte 212: 691

Malate
dehydrogenase endocytosis macrophage 210: 419
dehydrogenase uptake mitochondria 210: 207

Malignant
hyperpyrexia dantrolene 212: 399

Malonic
semialdehyde metab fibroblast 216: 81

Malonyl
CoA carnitine palmitoyltransferase pH 212: 521
CoA carnitine palmitoyltransferase sensitization 214: 1027
CoA inhibition carnitine palmitoyltransferase 212: 525
CoA inhibition carnitine palmitoyltransferase mitochondria 210: 953
CoA mitochondria carnitine palmitoyltransferase 214: 83
CoA organ starvation 214: 21

MalonylCoA
carnitine acyltransferase mitochondria adipose liver 210: 591

Maltase
glucoamylase formation intestine microvillus 210: 389
glucoamylase size shape intestine 213: 719

Mammary
amino acid starvation refeeding 216: 343
casein lactalbumin cortisol 212: 507
cholesterol formation lactation 212: 843
epithelium fatty acid formation 212: 155
fatty acid goat 209: 215
gland polyamine metab starvation 212: 149
lipogenesis lactation rhythm appetite 214: 183
liver lipogenesis starvation refeeding 216: 515
somatotropin variant binding 214: 885
tumor peroxidase eosinophil 213: 165

Mandelate
dehydrogenase stereospecificity Acinetobacter 209: 379

Manganese
calcium cycling mitochondria liver 212: 773
calcium interaction pancreas islet 210: 307
phosphatidylinositol formation lymphocyte 212: 691
retinyl phosphate hydrophobic environment 214: 719
stimulation vitamin K carboxylase 209: 719

Mannitol
marker mitochondrial vol detn 214: 387
Mannose
binding protein liver sepn 210: 167
carrier polyprenol Crithidia 212: 123
phosphate receptor liposome 214: 413
retinyl phosphate filaria 214: 367
retinyl phosphate membrane liver 216: 727
transport liver lysosome 212: 211
Mannosidase
binding liposome phosphoman= nose receptor 214: 413
mannosidosis swainsonine genet= ic 215: 693
Mannosidosis
oligosaccharide cattle cat human 215: 573
oligosaccharide genetic swainso= nine 215: 693
Mannosylation
retinyl phosphate microsome manganese 214: 719
Mass
spectrometry carboxy terminus identification 215: 273
spectroscopy peptide sequencing 215: 261
Mast
cell histamine release calcium 210: 737
Mastocytoma
mRNA prostaglandin endoper= oxide synthase 212: 219
MCD
cytochrome oxidase copper 215: 303
MD780236
inhibition monoamine oxidase 209: 235
Measles
virus infection persistence phos= pholipid 214: 665
Melittin
aggregation counterion 211: 683
calmodulin complex formation calcium 209: 269
Membrane
adenylate cyclase glucagon 214: 93
adrenal cortex cholesterol 214: 561
alanine transport liver 214: 489
ATPase liver regeneration 212: 445
calcium transport stomach 210: 315
cAMP phosphodiesterase hepa= tocyte 216: 245
cell ATPase mutation Escheric= hia 211: 717
cell phospholipid diet fat 212: 573
cholinergic synaptic vesicle lipid organization 211: 155
cytosol calcium mast cell 210: 737
C9 complement dimer complex 209: 753
enzyme regulation lipid order 213: 479
erythrocyte bilirubin receptor 210: 489
erythrocyte binding nitrobenzyl= thioinosine human 216: 661
erythrocyte nucleoside glucose transporter 214: 995
function Escherichia ATPase mutation 216: 143
glucan synthase endosperm ryegrass 209: 627
hydrogenase Desulfovibrio 209: 445
inner mitochondria Saccharo= myces proteolysis 214: 785
intracellular C3b complement receptor 210: 567
kidney glutamine transport acidosis 212: 713
lipid Dunaliella osmotic pressure 213: 131
lipid fluidity liver 214: 851
liver adenylate cyclase cholester= ol 210: 437 212: 331
liver avidin biotin binding 210: 121
liver retinyl phosphate mannose 216: 727
microsome aminopeptidase N formation 212: 161
mitochondria glutaminase phos= pholipid liver 214: 649
NAD glycohydrolase spleen 212: 459
plasma potential lymphocyte concanavalin 210: 885
protein degrdn hepatoma mito= chondria 216: 163
protein liposome endocytosis detn 214: 189
surface pancreas ATPase 214: 59
vesicle brush border kidney 214: 209
Memsin
serine proteinase carcinosarcoma 211: 695
Mercaptan
antibody creatine kinase avidity 215: 505
Mercapto
carnitine palmitoyltransferase malonyl CoA 214: 1027
microsome proton transport ATPase 213: 587
Mercaptoacetate
inhibition acylCoA dehydroge= nase mitochondria 215: 457
Mesaconate
methylsuccinate ethylmalonate metab 214: 641
Mesentericopeptidase
active site serine tryptophan 215: 413
Metabolite
detn blood vertebrate NMR 211: 605
Metal
toxicity nickel resistant Neuros= pora 212: 205
Metalloendopeptidase
deficiency mouse kidney micro= villus 209: 251
Metalloproteinase
inhibitor TIMP interaction collagenase bone 211: 313
Metallothionein
cadmium formation liver 210: 769
copper laccase reconstitution 211: 515
I radioimmunoassay liver 213: 459
isoprotein reversed phase liq chromatog 209: 71
liver cadmium NMR 211: 251
Methane
oxidn Nitrosomonas 212: 31
Methionine
proteinase inhibitor rabbit 213: 279
Methotrexate
tumor methylenetetrahydrofolate 216: 295
Methyl
accepting chemotaxis protein Bacillus 213: 759
Methylamine
macroglobulin electrophoretic mobility 209: 99
transport liver cell lysosome 210: 929
Methylation
glutamate chemotaxis protein Bacillus 213: 759
phospholipid regulation function review 213: 1
Methylbenzanthracene
metab Cunninghamella 216: 377
Methylenetetrahydrofolate
tumor methotrexate 216: 295
Methylhistidine
metab muscle development starvation 214: 593
metab muscle intestine 214: 607
Methylmalonyl
CoA epimerase mechanism Pro= pionibacterium 213: 635 213: 643
Methyloxovalerate
metab hepatocyte albumin 212: 655
Methylprednisolone
lung oligosaccharide lipid 213: 609
Methylsuccinate
mesaconate ethylmalonate metab 214: 641
Methylsulfoxide
Rhodopseudomonas cytochrome 212: 783
Methylthioadenosine
analog interaction enzyme polya= mine metab 210: 429
Methyltransferase
phospholipid hepatocyte adreno= ceptor 216: 675
Methylumbelliferyl
casein proteinase detn fluorome= try 209: 265

Mevalonate
Tetrahymena tetrahymanol ubiquinone formation 216: 203
Micelle
retinyl phosphate divalent cation 214: 719
Micrococcus
phospholipid desaturase 209: 345
Microinjection
erythrocyte muscle protein degrdn 216: 559
Microscopy
electron intima collagen human 211: 303
Microsome
ATPase activator stomach 212: 887
ATPase liver regeneration 212: 445
calcium ATPase liver 210: 405
calmodulin dependent ATPase liver 214: 69
carbon tetrachloride GSH oxygen 215: 441
cytochrome P450 immunochem liver 215: 83
cytochrome P450 reductase radioimmunoassay 211: 333
glycerol phosphate acyltransfer= ase noradrenaline 214: 235
hepatocyte cholesterol transport radioassay 216: 137
kidney acetylgalactosaminyltran= sferase 215: 483
lipid metab pea 213: 249
lipid peroxidn iron cysteine 212: 549
liver alc metab desferrioxamine 210: 107
liver protein disulfide isomerase 213: 245
membrane aminopeptidase N formation 212: 161
mercapto proton transport AT= Pase 213: 587
retinyl phosphate divalent cation 214: 719
Microtubule
intestine microvillus protein formation 216: 37
liver Golgi glycosyltransferase 212: 721
Microvillus
intestine enzyme formation 210: 389
kidney mouse metalloendopepti= dase deficiency 209: 251
peptidase liposome reconstitu= tion kidney 211: 755
protein formation intestine organelle 216: 37
Microviscosity
GSH diffusion erythrocyte 216: 655
Midgut
beta glucosidase Rhynchosciara 213: 43
Milk
protein zinc binding 209: 505
sulfhydryl oxidase sepn gluta= myltransferase 209: 731
Miltenberger
erythrocyte glycophorin A 213: 399
Mitochondria
Acanthamoeba respiration oxy= gen affinity 214: 47
acetyl CoA metab detn 210: 265
acylCoA dehydrogenase inhibi= tion mercaptoacetate 215: 457
adipose GDP corticosterone 214: 265
adipose liver carnitine acyltrans= ferase malonylCoA 210: 591
brown adipose uncoupling pro= tein 210: 859
calcium amiprophosmethyl corn 212: 567
calcium cycling liver manganese 212: 773
calcium liver glucagon 210: 73
calcium transport adrenaline 216: 51
calcium transport calmodulin 214: 929
calcium transport liver hormone 210: 463
calcium transport obesity 214: 163
calcium uptake GDP obesity 214: 171
carnitine palmitoyltransferase inhibition malonyl CoA 210: 953
carnitine palmitoyltransferase malonyl CoA 214: 21 214: 83 214: 1027
cytochrome oxidase assembly liver 212: 829
endoplasmic reticulum cytos= tructure liver 214: 795
fatty acid acetyl CoA 216: 499
glutaminase hormone liver 210: 957
glycerol phosphate acyltransfer= ase noradrenaline 214: 235
heart calcium transport catecho= lamine 216: 333
hepatocyte pyruvate carboxyla= tion insulin 214: 451
inner membrane Saccharomyces proteolysis 214: 785
ketogenesis enzyme rumen ep= ithelium 216: 769
liver hydrogen peroxide noradre= naline 214: 745
liver respiration adrenergic 210: 867
malate dehydrogenase uptake 210: 207
membrane glutaminase phospho= lipid liver 214: 649
membrane protein degrdn hepa= toma 216: 163
neutrophil ubiquinone 216: 765
passive diffusion NAD potato 216: 443
phosphate transport liver 212: 279
protein degrdn hepatocyte 216: 151
proton transport cytochrome oxidoredn 216: 259
pyruvate carboxylase degrdn lysosome 210: 845
pyruvate carboxylation hormone 212: 417
pyruvate dehydrogenase regula= tion muscle 214: 725
respiration glucagon 210: 819
vol hormone liver 214: 395
Mitochondrial
vol detn mannitol marker 214: 387
Mitogen
colostrum epidermal growth factor 212: 465
lymphocyte stimulation calcium cytoplasm 212: 685
pyruvate dehydrogenase lym= phocyte calcium 216: 359
Mitogenesis
thymocyte Con A calcium 214: 575
Model
GM1 gangliosidosis 213: 473
mucus glycoprotein structure 209: 893
protein low frequency motion 215: 465
Mol
assocn actin nucleation 213: 727
assocn actin polyethylene glycol 213: 651
assocn collagen calcium lanthan= ide 213: 751
Molybdenum
center nitrate reductase EPR spinach 213: 137
center sulfite oxidase EPR 211: 227
iron protein nitrogenase Kleb= siella 209: 43
Molybdoferredoxin
azoferredoxin dissocn kinetics 215: 393
electron transfer Klebsiella 209: 207
Monoamine
oxidase inhibition MD780236 209: 235
Monoclonal
antibody creatine kinase ELISA 213: 417
antibody HLA A2 antigen bind= ing 216: 423
antibody interaction fibronectin domain 215: 147
antibody kidney endopeptidase 214: 377
antibody protein kinase spleen 209: 435
Monocyte
cholesterol metab 210: 523
culture complement C1 subcom= ponent 216: 385
glycoprotein IIb IIIa throm= basthenia 214: 331
glycosaminoglycan formation differentiation 210: 661
lysosome enzyme biosynthesis transport 214: 671
Monogalactosyldiacylglycerol
formation Vicia San 9785 209: 513

Mosquito
glutathione formation senescence 210: 289
glutathione transferase development senescence 210: 281
Moth
hawk muscle substrate cycling 210: 49
Mouse
deoxycytidine metab 210: 367
genetics liver ganglioside 209: 885
Ig kappa chain isotype 211: 173
kidney microvillus metalloendopeptidase deficiency 209: 251
mRNA
casein lactalbumin cortisol 212: 507
liver hypolipidemic Wy 14643 214: 879
prostaglandin endoperoxide synthase mastocytoma 212: 219
MSBAR
insulin dimer 216: 687
Mucin
goblet cell property 209: 117
structure cervix 213: 427
Mucosa
glycoprotein structure cervix cattle 215: 701
Mucus
cervix glycoprotein characterization 211: 13
cervix glycoprotein heat 209: 565
cervix glycoprotein structure 213: 427
glycoprotein structure model 209: 893
intestine glycoprotein age 215: 405
polysaccharide stomach 215: 421
Multienzyme
arom complex domain Neurospora 213: 405
complex oxo acid dehydrogenase Bacillus 215: 133
Multiplication
stimulating activity protein phosphorylation 214: 11
Musca
catalase aminotriazole peroxide glutathione 216: 503
Muscarinic
agonist antagonist heart receptor 216: 11
phosphoinositide metab parotid 216: 633
Muscle
adenylate cyclase Orconectes 211: 319
amino acid metab catecholamine 216: 63
aminopeptidase human 211: 567
cell culture protein degrdn 216: 559
compensatory growth protein turnover 210: 89
denervation sarcoplasmic reticulum ATPase calcium 210: 339
differentiation cysteine protease 214: 871
fusion phosphoinositide metab 214: 77
glutamine metab diabetes ketoacidosis 214: 757
glutamine synthetase acidosis 216: 523
lactate dehydrogenase activation phosphate 215: 685
metab exercise insulin 212: 453
methylhistidine metab 214: 607
mitochondria pyruvate dehydrogenase regulation 214: 725
phosphofructokinase isoenzyme fetus 214: 703
protein formation degrdn 212: 649
protein formation feeding insulin 210: 669
protein formation hemicorpus 214: 433
protein formation starvation hormone 216: 583
protein formation stretching prostaglandin 214: 153
protein metab corticosterone 214: 617
protein metab development starvation 214: 587 214: 593
protein metab insulin 210: 323
purine formation 216: 605
pyruvate kinase denaturation refolding 209: 763
pyruvate kinase regulation 209: 401 209: 413
pyruvate metab compartmentation 216: 761
smooth artery pinocytosis 216: 467
smooth cyclic nucleotide phosphodiesterase 215: 627
snail foot adenylate deaminase specificity 215: 39
substrate cycling hawk moth 210: 49
sugar transport kinetics 214: 737
tension PGF2alpha protein formation 214: 1011
Z line actinin proteinase 209: 635
Muscular
dystrophy creatine kinase isoenzyme 213: 417
Mutation
ATPase Escherichia membrane function 216: 143
cell secretion review 216: 1
gene uncD ATPase Escherichia 210: 395
gene uncE Escherichia ATPase 213: 451
gene uncE sequence Escherichia 211: 717
Mycobacillin
forming enzyme component Bacillus 215: 539
Mycoplasma
infected fibroblast collagenase 212: 641
Myelin
protein kinase heterogeneity 209: 789
Myeloperoxidase
eosinophil peroxidase blood 209: 781
transport oxygen radical neutrophil 216: 459
Myoblast
fusion cathepsin 214: 871
fusion phosphoinositide metab 214: 77
protein breakdown insulin 210: 243
Myofibril
protein metab development starvation 214: 587 214: 593
Myogenesis
creatine kinase isoenzyme 213: 417
Myoglobin
reconstitution heme disorder 215: 117
Myoinositol
lung phosphatidylglycerol formation 212: 811
Myosin
ATP binding mechanism kinetics 209: 617
ATPase regulation phosphorylation 214: 839
chicken gizzard prepn sequence 211: 267
degrdn peroxide 211: 323
kinase activation azidocalmodulin 215: 475
polysome aggregate liver 216: 215
NAD
binding aldehyde dehydrogenase liver 211: 363
glycohydrolase membrane spleen 212: 459
mitochondria passive diffusion potato 216: 443
peroxisome permeability 210: 685
NADH
binding aldehyde dehydrogenase liver 211: 363
dehydrogenase Thermus 209: 427
NADPH
chloroaniline oxidn cytochrome P450 212: 539
cytochrome P450 reductase labeling bromobimane 215: 159
glucose phosphate dehydrogenase GSSG 214: 959
Nafenopin
liver peroxisome proliferation 210: 875
Neoplasm
pancreas islet insulin glucose 210: 345
Neoplastic
transformation cell division phosphate 214: 695
Nerve
acetylcholinesterase solubilization heparin 215: 201
muscle sarcoplasmic reticulum

calcium ATPase 210: 339
sciatic inositol transport diabetes 210: 775
spinal neurofilament triplet protein 215: 227
Nervous
system calcium binding protein squid 209: 797
Neuraminate
nomenclature polemic 215: 711
Neuraminidase
nomenclature 215: 711
Neurofilament
triplet protein proteolytic digestion 215: 239
triplet protein spinal nerve 215: 227
Neurospora
arom multienzyme complex domain 213: 405
cytochrome oxidase kinetics 215: 425
glutamate dehydrogenase activation cation 209: 527
nickel resistant metal toxicity 212: 205
Neurotoxic
esterase organ aging 209: 817
Neurotoxin
Laticauda 213: 39
sea snake taxonomy 213: 31
Neurotransmission
GABA review 209: 29
Neurotransmitter
metab electrochem monitoring review 211: 1
phosphoinositide metab 212: 473
Neutral
proteinase kidney brush border 211: 743
Neutrophil
iodination phagocytosis 210: 215
mitochondria ubiquinone 216: 765
oxygen radical 216: 459
Newborn
brush border kidney 214: 209
fetoprotein skin formation characterization 216: 227
hepatocyte ketone body formation 214: 937
lactate oxidn brain 214: 633
premature hypoglycemia glucose metab 214: 525
Newsletter
biochem nomenclature Issue 1 209: I
Nicotinamide
nucleotide transhydrogenase inhibition dicyclohexylcarbodiimide butanedione 209: 889
Nigericin
protonmotive force Escherichia 212: 105
Nitrate
reductase molybdenum center EPR spinach 213: 137
Nitric
oxide guanylate cyclase 215: 447
Nitroarom
electron reduced ascorbate oxidase 209: 167
Nitrobenzylthioinosine
binding dissocn fibroblast 216: 299
binding erythrocyte nucleoside transporter 216: 661
Nitrogenase
activating enzyme Rhodospirillum 213: 741
component electron transfer Klebsiella 209: 207
iron molybdenum cofactor ESR 211: 495
iron protein adenine Rhodospirillum 209: 881
Klebsiella hydrogen prodn carbon monoxide 211: 589
molybdenum iron protein Klebsiella 209: 43
Nitrosamine
alkylated porphyrin liver 212: 599
Nitrosomonas
cytochrome c binding carbon monoxide 211: 503
methane oxidn 212: 31
NMR
cytochrome b5 c interaction 215: 11
glycylhistidyllysine interaction copper 209: 533
heparan sulfate sulfation 211: 677
insulin disulfide lysis 211: 499
metabolite detn blood vertebrate 211: 605
metallothionein liver cadmium 211: 251
penicillinase unfolding intermediate Staphylococcus 215: 525
phosphorus 31 brain metab 212: 365
potassium detn erythrocyte 210: 961
somatotropin histidine residue 213: 107
Nomenclature
biochem newsletter Issue 1 209: I
cysteine proteinase papaya 213: 559
enzyme kinetics symbolism terminol 213: 561
neuraminate polemic 215: 711
Noncollagenous
protein tooth predentin 214: 769
Nonhistone
protein nucleus heart development 210: 175
Nonparenchyma
liver interaction chylomicron apolipoprotein 216: 71
Noradrenaline
glucose adipocyte insulin receptor 216: 737
glycerol phosphate acyltransferase 214: 235
hydrogen peroxide liver mitochondria 214: 745
liver mitochondria respiration 210: 867
Norcholate
secretion bile conjugation 214: 923
Norvaline
glutamate dehydrogenase kinetics mechanism 211: 99
Nucleation
actin mol assocn 213: 727
Nucleoside
glucose transporter erythrocyte membrane 214: 995
phosphatase stereoselectivity aorta 214: 975
purine phosphorylase deficiency lymphoblast 214: 711
transport erythrocyte preservation 210: 457
transport inhibitor binding fibroblast 216: 299
transporter erythrocyte binding nitrobenzylthioinosine 216: 661
Nucleotidase
leukocyte adenosine formation 214: 325
nucleoside stereoselectivity aorta 214: 975
Nucleotide
adenine insulin secretory granule 210: 297
adenine site succinyl CoA synthetase 215: 513
adenine status chloroplast light 210: 273
cyclic chemiluminescence immunoassay 216: 185
guanine adenylate cyclase forskolin 216: 753
guanine regulatory protein insulin 214: 547
purine ammonia kidney 212: 705
specificity proton translocase insulin granule 210: 235
transport chromaffin granule adrenal 210: 789
Nucleus
cell RNA efflux methodol criticism 214: 915
nonhistone protein heart development 210: 175
Nutrition
zinc bioavailability milk human 209: 505
zinc parturition steroid hormone 210: 761
Obesity
beta oxidn liver peroxisome 212: 891
brown adipose corticosterone 214: 215
calcium transport mitochondria 214: 163
calcium uptake GDP mitochondria 214: 171
fatty acid formation adipose 212: 393
fructose phosphate liver cAMP 214: 1019
glycogen formation liver glucose 216: 491

glycogen metab liver 216: 273
lipogenesis brown adipose tissue 216: 543
vasopressin receptor liver 216: 475
Odontoblast
carboxyglutamate contg protein 216: 249
Oleate
glycerolipid formation hepatocyte cAMP 216: 129
metab liver hormone 212: 85
Oleoyl
phosphatidylcholine desaturase pea 213: 249
Oleoylanilide
tissue lipogenesis 212: 339
Oligosaccharide
asparagine linked proteodermatan sulfate 213: 297
basement membrane aorta 211: 735
dolichol hepatoma dibutyryl cAMP 212: 859
heparin platelet factor 4 209: 455
lipid lung bleomycin methylprednisolone 213: 609
mannosidosis cattle cat human 215: 573
mannosidosis genetic swainsonine 215: 693
protein linkage ethanolamine Trypanosoma 209: 261
structure glycoprotein cell membrane virus 209: 659
Ontogeny
brain electron transport reductase 214: 751
lipogenesis adipose tissue obesity 216: 543
skin fetoprotein estradiol binding 210: 653
Opioid
liver glycogenolysis gluconeogenesis 216: 507
Opsin
peptide sequence 211: 661
Orconectes
adenylate cyclase muscle 211: 319
Order
lipid regulation enzyme membrane 213: 479
Org
solvent stimulation vitamin K carboxylase 209: 719
Organ
histone H10 mammal 211: 763
malonyl CoA 214: 21
neurotoxic esterase aging 209: 817
phosphofructokinase isoenzyme fetus 214: 703
sialate precursor forming enzyme 210: 21
Organelle
intestine microvillus protein formation 216: 37
Ornithine
aminotransferase inhibition aminohexynoate 209: 243
decarboxylase bone duodenum cholecaliferol metabolite 214: 293
decarboxylase diaminopropane liver 216: 701
decarboxylase embryo temp 216: 597
decarboxylase heart isoprenaline calcium 212: 241
decarboxylase kidney liver amino acid 210: 617
decarboxylase mammary starvation 212: 149
decarboxylase Physarum modification polyamine 214: 345
difluoromethyl antitumor guanylhydrazone 212: 895
starvation cell cadaverine accumulation 210: 945
Osmoregulation
Dunaliella 213: 131
Osmotic
pressure Dunaliella membrane lipid 213: 131
Osteogenesis
imperfecta collagen glycosaminoglycan 213: 171
Ovalbumin
renaturation 212: 801
Ovary
cyst glycoprotein degrdn peroxide 211: 323
Oviduct
chromatin binding estrogen receptor 210: 905
Oxidase
amine yeast substrate specificity 211: 481
ascorbate electron reduced anion 209: 167
benzylamine inhibitor plasma 211: 767
carbon monoxide EPR Pseudomonas 211: 687
coproporphyrinogen mechanism Rhodopseudomonas 209: 709
cytochrome active site ligand binding 215: 57
cytochrome assembly mitochondria liver 212: 829
cytochrome c cardiolipin dogfish 209: 901
cytochrome c redn dithionite 209: 175
cytochrome copper MCD 215: 303
cytochrome kinetics 215: 589
cytochrome kinetics carbon monoxide 215: 425
cytochrome kinetics phospholipid liposome 209: 81
cytochrome proteoliposome proton translocation 210: 199
cytochrome reaction intermediate spectra 215: 659
diamine antitumor polyamine antimetabolite 212: 895
hemoprotein cytochrome aa3 Acanthamoeba 210: 721
lysyl embryo collagen crosslinking 210: 633
monoamine inhibition MD780236 209: 235
sulfhydryl sepn glutamyltransferase milk 209: 731
sulfite molybdenum center EPR 211: 227
xanthine exchange reaction pH 215: 101
Oxidn
beta liver peroxisome obesity 212: 891
chloroaniline cytochrome P450 cumene hydroperoxide 212: 539
differential hydroxyl radical scavenger 216: 415
fatty acid acetyl CoA 216: 499
glucose epididymis fat selenium 214: 471
Oxidoredn
cytochrome proton transport mitochondria 216: 259
Oxo
acid CoA transferase kinetics kidney 213: 179
acid dehydrogenase adipocyte differentiation 214: 177
acid dehydrogenase multienzyme complex Bacillus 215: 133
Oxoacyl
CoA thiolase mechanism liver 213: 153
Oxoglutarate
dehydrogenase adipocyte differentiation 214: 177
Oxothiomethylbutyrate
metab microsome desferrioxamine 210: 107
Oxygen
affinity hemocyanin fragment Lymnaea 209: 519
affinity respiration Acanthamoeba mitochondria 214: 47
binding Helix hemocyanin 209: 373
cytochrome oxidase intermediate 215: 659
lysyl hydroxylase 213: 507
radical carbon tetrachloride liver 215: 441
radical neutrophil 216: 459
Rhodopseudomonas cytochrome 212: 783
Oxygenase
ribulose diphosphate Rhodospirillum 212: 45
tryptophan detn liver 209: 831
Oxytocin
phospholipid metab adipose 212: 489
Palmitate
glycerolipid formation hepatocyte cAMP 216: 129
Palmitoylcarnitine
pyruvate dehydrogenase muscle mitochondria 214: 725
Palmitoyltransferase
carnitine detn albumin 216: 495
carnitine malonyl CoA inhibition 212: 525
carnitine malonyl CoA pH 212: 521
carnitine mitochondria adipose

liver malonylCoA 210: 591
carnitine mitochondria inhibition malonyl CoA 210: 953
carnitine mitochondria malonyl CoA 214: 21 214: 83
carnitine sensitization malonyl CoA 214: 1027
Pancreas
calcium transport amino acid 214: 899
cyclic nucleotide phosphodiester= ase calmodulin 211: 341
islet calcium manganese interac= tion 210: 307
islet calcium transport endo= plasmic reticulum 212: 113
islet hydroxytryptamine trans= port granule 210: 803
islet neoplasm insulin glucose 210: 345
membrane surface ATPase 214: 59
phosphatidylinositol diphosphate metab secretagogue 212: 483
procarboxypeptidase A multiple form 215: 23
secretion protein phosphoryla= tion 210: 353
Pancreatic
islet metab ketone body 212: 371
islet phosphatidylinositol hydro= lysis 216: 433
islet polyphosphoinositide metab calcium 216: 101
islet protein kinase 212: 819
Pantetheine
phosphate adenylyltransferase liver 215: 153
Papain
active site probe 209: 873
kinetics pH overlapping ioniza= tion 211: 701
nomenclature identification 213: 559
Papaya
cysteine proteinase nomenclature identification 213: 559
peptidase active site probe 209: 873
Paraquat
spinach chloroplast glutathione ascorbate 210: 899
Parotid
phosphatidylinositol formation sympathetic denervation 214: 865
phosphoinositide metab carba= chol 216: 633
Parturition
zinc nutrition steroid hormone 210: 761
Pasteur
effect yeast glycolysis respiration 212: 749
Pea
glucuronyltransferase glucuro= noxylan formation 213: 115
microsome lipid metab 213: 249
vicilin proteolysis sequence specificity 212: 427
PEG
aspartate aminotransferase microcrystal efficiency 211: 427
Penicillin
binding protein carboxypepti= dase Bacillus 214: 653
Penicillinase
unfolding intermediate Staphy= lococcus NMR 215: 525
Penicillium
verruculogen formation 214: 991
Pentose
phosphate pathway hepatocyte 212: 585
Pepsin
cathepsin D kinetics 211: 237
inhibition pepsinogen peptide analog 209: 355
Pepsinogen
peptide analog inhibition pepsin 209: 355
Pepstatin
dinitrophenyl cathepsin D histo= chem localization 211: 139
Peptidase
dipeptidyl formation intestine microvillus 210: 389
dipeptidyl IV fibroblast surface 216: 177
kidney microvillus liposome reconstitution 211: 755
Peptide
analog pepsinogen inhibition pepsin 209: 355
chemotactic oxygen radical neutrophil 216: 459
cysteine sepn chromophore labeling 211: 163
glutamate carboxylation vitamin K carboxylase 215: 75
hydroxylation lysine collagen chain 211: 599
inhibitor protein kinase 213: 159
Rhodamine serine proteinase substrate 215: 253
sequence Bb fragment comple= ment 209: 61
sequence collagen chain skin 215: 183
sequence rhodopsin 211: 661
sequencing interferon 215: 273
sequencing permethylation chro= matog spectroscopy 215: 261
sequencing precolumn dimethy= laminoazobenzene isothiocya= nate 211: 173
Peritoneum
dialysis glucose lipogenesis insu= lin 214: 459
Permeability
Escherichia proton ATPase mutation 216: 143
peroxisome NAD 210: 685
Permethylation
peptide sequencing 215: 261
Peroxidase
cytochrome Pseudomonas 209: 701
eosinophil uterus 213: 165
Peroxide
glycoprotein degrdn ovary cyst 211: 323
iron bipyridyl radical 216: 415
Musca aminotriazole catalase 216: 503
Peroxidn
lipid erythrocyte Hb degrdn 212: 759
lipid ferritin iron loading 209: 557
lipid iron liver aminolevulinate synthase 212: 321
lipid kidney prostaglandin for= mation 212: 167
lipid liver carbon tetrachloride 212: 625
lipid microsome iron cysteine 212: 549
Peroxisome
beta oxidn liver obesity 212: 891
proliferation liver hypolipidemic drug 210: 875
water solute accessible space 210: 685
PGE1
adenylate cyclase GTP 214: 231
PGE2
dihydroxyvitamin D3 formation 216: 237
formation kidney lipid peroxidn 212: 167
PGF2alpha
muscle tension protein formation 214: 1011
PGI2
platelet aggregation lipoprotein 216: 43
secretion endothelium purine 214: 273
pH
arylsulfatase kinetics liver 213: 603
beta lactamase kinetics 213: 61
enzyme kinetics overlapping ionization 211: 701
Escherichia potassium transport 216: 709
xanthine oxidase exchange reac= tion 215: 101
Phagocytosis
detn technetium 99m zymosan 214: 277 214: 278
leukocyte dichlorophenol indo= phenol reductase 210: 577
neutrophil iodination 210: 215
pinocytosis mechanism review 210: 1
Phase
transition phospholipid exchange liposome 213: 21
Phaseolus
enterokinase inhibitor 209: 91
Phenobarbital
cytochrome P450 form RIA 212: 55
cytochrome P450 reductase microsome 211: 333
liver RNA transcription 210: 599
liver UDP glucuronyltransferase 214: 517

uroporphyrinogen decarboxylase hepatocyte 214: 145
Phenol
glucuronidation liver development 214: 533
Red binding serum albumin 209: 135
Phenylalanine
tyrosine metab 210: 811
Phenylboronate
affinity chromatog glycoHb 209: 771
Phenylephrine
gluconeogenesis liver calcium 212: 555
liver calcium phospholipase 210: 115
liver calcium transport A23187 214: 405
mitochondria vol liver 214: 395
pyruvate dehydrogenase calcium 212: 271
Phenylpyruvate
insulin release mechanism 210: 913 210: 921
PHI
glycogenolysis gluconeogenesis liver 214: 999
Phosphatase
acid chloramphenicol cotton embryo 212: 73
alk brush border membrane 214: 209
alk intestine fetus 211: 553
glycogen synthase corticosteroid 214: 539
glycogen synthase regulation liver 212: 407
nucleoside stereoselectivity aorta 214: 975
Phosphate
activation lactate dehydrogenase muscle 215: 685
analog arsonomethyl group structure 213: 217
cell division regulation 214: 695
insulin secretory granule 210: 297
transport mitochondria liver 212: 279
Phosphatidate
brush border calcium transport 214: 37
formation adipose adenosine 212: 499
turnover chloroplast diacylgalactosylglycerol compn 210: 949
Phosphatidylcholine
exchange chylomicron lipoprotein 215: 279
formation hepatocyte cAMP 216: 129
formation hepatocyte isoprenaline 216: 675
formation regulation review 213: 1
Phosphatidylglycerol
formation lung myoinositol 212: 811
Phosphatidylinositol
diphosphate metab pancreas secretagogue 212: 483
formation adipose adenosine 212: 499
formation lymphocyte cation 212: 691
formation parotid sympathetic denervation 214: 865
hydrolysis pancreatic islet 216: 433
metab platelet activating factor 212: 433
phosphate hydrolysis TRH 216: 287
phosphate metab liver hormone 212: 733
phosphodiesterase brain calcium 215: 431
Phosphocreatine
metab heart diabetes 210: 477
Phosphodiesterase
calmodulin antagonist 216: 611
cAMP activation calmodulin melittin 209: 269
cAMP hepatocyte insulin 216: 245
cAMP liver endoplasmic reticulum 213: 89
cAMP pancreatic hormone 214: 99
cGMP hepatoma liver 213: 379
cyclic nucleotide calmodulin pancreas 211: 341
cyclic nucleotide endoplasmic reticulum 213: 99
cyclic nucleotide isoenzyme gizzard 215: 627
phosphatidylinositol brain calcium 215: 431
pituitary TRH 216: 287
Phosphofructokinase
Aspergillus 209: 669
formation fibroblast proliferation 214: 195
heart calcium activation 216: 717
intestine 211: 373
isoenzyme D intestine epithelium 215: 335
isoenzyme organ fetus 214: 703
Saccharomyces pH benzoate antifungal 214: 657
small intestine starvation 210: 129
Phosphoglycerate
analog crystal structure 213: 217
arsonomethyl analog interaction kinase 213: 211
kinase sequence Saccharomyces 211: 199
photosynthesis regulation 210: 273
Phosphoglycoprotein
structure Trypanosoma antigen 213: 313
Phosphoinositide
fatty acid diglyceride erythrocyte 213: 555
metab myoblast fusion 214: 77
metab neurotransmitter 212: 473
metab parotid carbachol 216: 633
metab salivary gland fly 212: 849
metab. pancreatic islet calcium 216: 101
Phospholipase
adipose metab hormone 212: 489
A1 activation liver 209: 865
A2 ATPase stomach activator 212: 887
C multiple form heart 215: 325
calcium transport hepatocyte 210: 115
phosphatidylinositol hydrolysis pancreatic islet 216: 433
Phospholipid
bile taurodeoxyholate 216: 107
calcium sensitive protein kinase spleen 209: 435
desaturase Micrococcus 209: 345
endosome derived vesicle hepatocyte 216: 27
exchange liposome protein 213: 21
liposome cytochrome oxidase kinetics 209: 81
liver diet fat 212: 573
measles virus infection persistence 214: 665
metab adipose adenosine 212: 499
metab adipose insulin 212: 489
methylation regulation function review 213: 1
methyltransferase hepatocyte adrenoceptor 216: 675
organization cholinergic synapse membrane 211: 155
peroxidn ferritin iron loading 209: 557
protein kinase corpus luteum 214: 569
Saccharomyces mitochondria membrane proteolysis 214: 785
soybean dolichol phosphatase 213: 513
transfer protein cytosol lung 215: 637
transfer protein detn fluorescence polarization 209: 257
Phosphomannosyl
receptor turnover fibroblast 214: 353
Phosphonobutanoate
crystal structure 213: 217
Phosphoprotein
chloroplast photosynthesis regulation review 212: 1
Dictyostelium development 212: 699
proline rich hydroxyapatite calcium 213: 11
Phosphorus
diet kidney dihydroxyvitamin D3 214: 893
31 NMR brain metab 212: 365
Phosphorylase
b denaturation guanidinium chloride 213: 595
b glycogenolysis liver ischemia 214: 645
cellobiose Cellvibrio 209: 803

glycogen synthase glucose diabetes 210: 783
inhibition glycogen synthase phosphatase 212: 407
liver vasopressin 216: 475
purine nucleoside deficiency lymphoblast 214: 711
Phosphorylation
dolichol Tetrahymena calcium calmodulin 216: 317
Escherichia ATPase F1F0 mutation 213: 451
Escherichia ATPase mutation 216: 143
histocompatibility antigen lymphoblast 210: 79
insulin receptor calcium 214: 361
insulin receptor hepatocyte 216: 575
liver chromosome protein polyamine 209: 197
myosin ATPase regulation 214: 839
protein electron transport chloroplast 210: 517
protein insulin granule calcium 210: 533
protein pancreas secretion 210: 353
protein preadipocyte growth factor 214: 11
protein thyroid thymus thyrotropin 215: 643
spore coat protein Dictyostelium 212: 699
troponin protein kinase heart 209: 189
uncoupler Rhodopseudomonas chromatophore model 212: 25
Photobilirubin
II binding serum albumin 213: 25
Photochem
bilirubin IXalpha heat 209: 695
Photolysis
cytochrome oxidase intermediate 215: 659
Photosynthesis
acetaldehyde inhibition Anabaena 212: 755
regulation adenine nucleotide phosphoglycerate 210: 273
regulation chloroplast phosphoprotein review 212: 1
respiration linkage Anacystis cytochrome 210: 269
Rhodopseudomonas cytochrome 212: 783
Photosynthetic
electron transport thylakoid red algae 210: 583
Photosystem
2 extn Anacystis calcium 210: 473
Physarum
ornithine decarboxylase modification polyamine 214: 345
protein cell cycle 212: 245
Pichia
amine oxidase purifn 211: 481
Pinocytosis
artery smooth muscle 216: 467
phagocytosis mechanism review 210: 1
Pituitary
tumor prolactin release cAMP 216: 551
Placenta
estrogen sulfotransferase 216: 451
intima collagen structure human 211: 295 211: 303
isocitrate dehydrogenase distribution 214: 339
protein formation amino acid 210: 99
sphingomyelinase structure heterogeneity 209: 291
Plant
seed ribosome inactivating protein 216: 617
Plasma
benzylamine oxidase inhibitor 211: 767
clearance enzyme endocytosis macrophage 210: 419
electrolyte detn vertebrate NMR 211: 605
elimination macroglobulin proteinase inhibitor 209: 99
fibrin oligomer formation 213: 75
fibronectin antigenic determinant 215: 147
insulin rhythm lipogenesis mammary 214: 183
metallothionein I detn 213: 459
protein degrdn detn radioligand 212: 791
urokinase protein complex 215: 123
vitamin K dependent protein S 209: 837
Plasmid
fusidate resistance Escherichia 215: 29
Plasmodium
ADP ribosyltransferase 209: 687
Plastocyanin
spinach ENDOR structure 215: 209
Platelet
activating factor phosphatidylinositol metab 212: 433
adenylate cyclase PGE1 214: 231
aggregation PGI2 lipoprotein 216: 43
derived growth factor protein phosphorylation 214: 11
energy consumption detn 210: 145
factor heparin oligosaccharide activity 209: 455
glycoprotein IIb IIIa Glanzmann thrombasthenia 214: 331
Pneumocyte
protein formation secretion 210: 607
Pneumonocyte
phosphatidylglycerol formation myoinositol 212: 811
Poikilotherm
ornithine decarboxylase temp adaptation 216: 597
Polyamine
antimetabolite diamine oxidase antitumor 212: 895
availability fibronectin kidney transformation 210: 137
inhibition protein kinase 213: 281
liver chromosome protein phosphorylation 209: 197
metab enzyme interaction methylthioadenosine analog 210: 429
metab mammary gland starvation 212: 149
modification ornithine decarboxylase Physarum 214: 345
starvation cell cadaverine accumulation 210: 945
tyrosine aminotransferase hormone 214: 679
Polychlorinated
biphenyl uroporphyrinogen decarboxylase hepatocyte 214: 145
Polyethylene
glycol actin mol assocn 213: 651
Polyglutamate
folate leukemia cell growth 214: 465
Polymerase
RNA I liver protein 210: 837
Polymn
collagen calcium lanthanide 213: 751
Polymorphonuclear
leukocyte adenosine formation 214: 325
Polyphosphoinositide
metab pancreatic islet calcium 216: 101
Polyprenol
dolichol soybean 213: 513
Ginkgo leaf 213: 305
mannose carrier Crithidia 212: 123
Polysaccharide
mucus stomach 215: 421
specific Streptococcus Ig kappa 211: 173
synthase bean induction control 210: 509
Polysome
cytoskeleton protein aggregate liver 216: 215
Pompes
disease glucosidase metab lysosome 212: 99
Porphyria
porphyrin isomer feces urine 211: 435
Porphyrin
alkylated liver diethylnitrosamine 212: 599
isomer detn chromatog 211: 435
liver diet hexachlorobenzene iron 214: 909
Potassium
ATPase thermal denaturation 211: 771

detn erythrocyte NMR 210: 961
transport Escherichia hydrogen ion 216: 709
transport lymphocyte calcium concanavalin 210: 885
Potato
lectin deglycosylated property 211: 273
mitochondria passive diffusion NAD 216: 443
Preadipocyte
oxo acid dehydrogenase differentiation 214: 177
protein phosphorylation growth factor 214: 11
Predentin
tooth noncollagenous protein 214: 769
Pregnancy
adipocyte lipolysis adenosine 216: 121
estrogen sulfotransferase 216: 451
insulin receptor adipopcyte 210: 373
lipogenesis glucose insulin fetus 216: 695
Premature
newborn hypoglycemia glucose metab 214: 525
Preservation
erythrocyte nucleoside transport 210: 457
Procainamide
Sepharose cholinesterase purifn serum 211: 243
Procarboxypeptidase
A multiple form pancreas 215: 23
Procion
Red agarose hydrogenase affinity chromatog 213: 391
Procollagenase
biosynthesis glycosidation secretion fibroblast 214: 281
Progesterone
cholesterol acyltransferase 215: 191
Prolactin
cAMP release pituitary tumor 216: 551
radioiodinated specific radioactivity detn 212: 259
Proline
peptide protein glycosylation 209: 331
rich phosphoprotein hydroxyapatite calcium 213: 11
rich protein cleavage saliva 211: 35
transport brush border membrane 214: 209
Prolyl
hydroxylase oxygen 213: 507
Propionibacterium
methylmalonyl CoA epimerase mechanism 213: 635 213: 643
Prostaglandin
endoperoxide synthase mRNA mastocytoma 212: 219
formation kidney lipid peroxidn 212: 167
protein formation muscle stretching 214: 153
Prostate
chromosome protein phosphorylation polyamine 209: 197
Prosthetic
group triethylamine diethylamine dehydrogenase 211: 535
Protein
alanine transport liver 214: 489
anion transport sequence erythrocyte 213: 577
antibacterial Sarcophaga hemolymph 211: 727
basement membrane aorta 211: 397
bile colchicine 216: 409
binding mannose liver sepn 210: 167
blood liver bile 210: 549
breakdown epidermal growth factor 210: 251
breakdown myoblast insulin 210: 243
C reactive formation liver 210: 707
calcium binding duodenum 211: 709
calcium binding nervous system squid 209: 797
Caldariella ribosome subunit 209: 461
carbohydrate binding fibroblast 211: 625
carboxy group modified site fibronectin 215: 613
carboxyglutamate contg odontoblast 216: 249
catabolin like synovium leukocyte 209: 337
chromosome liver phosphorylation polyamine 209: 197
complement C4b binding complex 209: 847
core disulfide proteoheparan sulfate 215: 417
degrdn fibroblast lysosome 212: 345
degrdn hepatoma mitochondria membrane 216: 163
degrdn muscle cell culture 216: 559
degrdn Saccharomyces mitochondria 214: 785
diet liver alanine metab 210: 645
disulfide isomerase liver 213: 225
disulfide isomerase liver microsome 213: 245
disulfide isomerase specificity liver 213: 235
disulfide redn enzyme liver 213: 519
egg yolk hydrophobic chromatog 209: 143
endosome derived vesicle hepatocyte 216: 27
fatty acid binding liver cholestyramine 216: 511
formation adipocyte insulin 214: 111
formation amino acid placenta 210: 99
formation bladder aldosterone 214: 29
formation degrdn muscle 212: 649
formation Dictyostelium development 216: 567
formation heart blood pressure 216: 537
formation heart ventricle atrium 214: 497
formation lung halothane 210: 379
formation muscle feeding insulin 210: 669
formation muscle hemicorpus 214: 433
formation muscle starvation hormone 216: 583
formation muscle stretching prostaglandin 214: 153
formation muscle tension PGF2alpha 214: 1011
formation polysome cytoskeleton aggregate 216: 215
formation secretion pneumocyte 210: 607
glycosylation structure requirement 209: 331
glycosylation thymocyte ammonium chloride 216: 681
helix low frequency vibration 209: 573
HMG liver testis Salmo 215: 531
homol barley Ricinus 213: 543
iron sulfur reaction kinetics 211: 219
kinase activation azidocalmodulin 215: 475
kinase corpus luteum 214: 569
kinase heterogeneity myelin 209: 789
kinase inhibition polyamine 213: 281
kinase inhibitor peptide 213: 159
kinase insulin receptor 216: 575
kinase insulin secretion 212: 819
kinase spleen 209: 435
kinase subunit crosslinking 209: 581
kinase troponin phosphorylation heart 209: 189
link binding hyaluronate 213: 445
link formation chondrocyte culture 214: 855
link RIA proteoglycan 213: 371
low frequency motion model 215: 465
membrane liposome endocytosis detn 214: 189
metab cartilage trachea culture 212: 659
metab heart workload 210: 55
metab hepatocyte calcium 216: 529
metab liver probe aminohexy-

noate 209: 243
metab muscle corticosterone 214: 617
metab muscle insulin 210: 323
methyl accepting chemotaxis Bacillus 213: 759
microvillus formation intestine organelle 216: 37
mitochondria degrdn hepatocyte 216: 151
molybdenum iron nitrogenase Klebsiella 209: 43
myofibril metab development starvation 214: 587 214: 593
noncollagenous tooth predentin 214: 769
nonhistone nucleus heart devel=opment 210: 175
nonhistone thyroxine liver 210: 331
nucleoside transport erythrocyte membrane 214: 995
oligosaccharide linkage ethanola=mine Trypanosoma 209: 261
penicillin binding carboxypepti=dase Bacillus 214: 653
peroxisome Wy 14643 214: 879
phospholipid exchange liposome 213: 21
phospholipid transfer cytosol lung 215: 637
phospholipid transfer detn fluorescence polarization 209: 257
phosphorylation electron trans=port chlorplast 210: 517
phosphorylation insulin granule calcium 210: 533
phosphorylation pancreas secre=tion 210: 353
phosphorylation preadipocyte growth factor 214: 11
Physarum cell cycle 212: 245
plasma degrdn detn radioligand 212: 791
proline rich hydroxyapatite calcium 213: 11
proteoglycan link cartilage age 214: 269
regulatory guanine nucleotide insulin 214: 547
ribosome inactivating plant seed 216: 617
RNA polymerase I liver 210: 837
S complement C4b complex 209: 857
S vitamin K dependent plasma 209: 837
saliva cleavage kallikrein 211: 35
secretory degrdn review 214: 1
sequence myosin gizzard 211: 267
serum binding hematoporphyrin 214: 503
size amino acid compn 213: 271
somatotropin binding liver 214: 121
spore coat phosphorylation Dictyostelium 212: 699
spore coat processing Bacillus 210: 411
structure gas vesicle Anabaena 209: 809
synthesis diabetes triiodothyro=nine 214: 637
thiol Rh null erythrocyte 213: 267
thyroid thymus phosphorylation thyrotropin 215: 643
triplet neurofilament proteolytic digestion 215: 239
triplet neurofilament spinal nerve 215: 227
turnover leucine metab radioas=say 214: 1015
turnover muscle denervation atrophy 210: 89
uncoupling brown adipose mito=chondria 210: 859
urokinase complex plasma 215: 123
wheat inhibition amylase Bacil=lus 209: 561
zinc binding Anthocidaris egg 211: 109
zinc binding milk 209: 505
Proteinase
active site benzyl guanidino=thiobenzoate 215: 287
cysteine active site probe 209: 873
cysteine inhibition cystatin 211: 129
cysteine muscle differentiation 214: 871
cysteine papaya nomenclature identification 213: 559
detn fluorometry methylumbelli=feryl casein 209: 265
inhibitor rabbit methionine 213: 279
macroglobulin complex calorime=try 209: 725
neutral kidney brush border 211: 743
serine complement C1s sequence 215: 565
serine fluorogenic substrate 209: 299
serine kinetics 215: 589
serine memsin carcinosarcoma 211: 695
serine substrate Rhodamine peptide 215: 253
Z line actinin muscle 209: 635
Proteodermatan
sulfate asparagine linked oligo=saccharide 213: 297
sulfate endocytosis fibroblast 215: 295
sulfate skin 213: 289
Proteoglycan
aggregate formation chondrocyte culture 214: 855
aggregate RIA cartilage 213: 371
aggregation cartilage chondrosar=coma 215: 705
basement membrane aorta 211: 735
binding hyaluronate chondrocyte surface 214: 777
cartilage human 209: 387
dermatan sulfate cervix human 209: 497
dermatan sulfate skin 213: 289
endocytosis fibroblast 215: 295
femoral head cartilage 213: 355
formation bone mineralization 216: 589
gingiva epithelium connective tissue 211: 119
link protein cartilage age 214: 269
metab intervertebral disk 215: 217
resorption cartilage protein synovium leukocyte 209: 337
tooth predentin 214: 769
Proteoglycanase
bone culture 209: 741
Proteoheparan
sulfate core protein disulfide 215: 417
Proteoliposome
cytochrome oxidase proton tran=slocation 210: 199
Proteolysis
heart inhibition colchicine 210: 63
vicilin pea sequence specificity 212: 427
Proton
electrochem gradient mitochond=ria obesity 214: 171
permeability Escherichia ATPase mutation 216: 143
translocase specificity insulin granule 210: 235
translocation proteoliposome cytochrome oxidase 210: 199
transport ATPase microsome mercapto 213: 587
transport cytochrome mito=chondria oxidoredn 216: 259
Protonmotive
force Escherichia valinomycin 212: 105
Protoporphyrin
aggregation aq soln 209: 547
PRPP
glucose transport fibroblast purine 214: 133
Pseudocentrotus
fibronectin 215: 205
Pseudomonas
carbon monoxide oxidase EPR 211: 687
cholate metab 216: 641
cytochrome peroxidase 209: 701
deoxycholic acid degrdn 210: 829
lipopolysaccharide hydrolysis diaminodideoxyglucofuranur=onolactam 215: 597
Purine
formation muscle 216: 605
glucose transport fibroblast PRPP 214: 133
nucleoside phosphorylase defici=ency lymphoblast 214: 711
nucleotide ammonia kidney 212: 705
PGI2 secretion endothelium 214: 273

Pyrazinamide
tryptophan glucose metab liver 214: 511
Pyridinoline
crosslink collagen cartilage 215: 175
structure glycosylation collagen crosslink 215: 167
Pyrimidinone
dihydropteridine reductase kinetics 211: 357
Pyrimidinylthioacetic
acid deriv liver mRNA 214: 879
Pyrophosphatase
UDP galactose liver regeneration 214: 1003
Pyrrolase
tryptophan detn liver polemic 215: 709
Pyruvate
carboxylase degrdn mitochondria lysosome 210: 845
carboxylation hepatocyte hormone 212: 417
carboxylation mitochondria hepatocyte insulin 214: 451
dehydrogenase active site coupling temp 213: 331
dehydrogenase adipocyte differentiation 214: 177
dehydrogenase calcium transport hormone 212: 271
dehydrogenase heart catecholamine 214: 581
dehydrogenase lymphocyte mitogen calcium 216: 359
dehydrogenase multienzyme Bacillus mutant 211: 463
dehydrogenase multienzyme complex Bcillus 215: 133
dehydrogenase regulation muscle mitochondria 214: 725
kinase denaturation refolding 209: 763
kinase kinetics Escherichia 211: 631
kinase regulation muscle 209: 401 209: 413
metab muscle compartmentation 216: 761
metabolic compartmentation heart 210: 193
Rabbit
complement terminal complex 209: 753
Radical
hydroxyl prodn catalysis lactoferrin 210: 15
hydroxyl scavenger differential oxidn 216: 415
oxygen neutrophil 216: 459
Radioactivity
detection fluorog electrophoresis gel 209: 281
specific detn hormone 212: 259
Radioassay
cholesterol transport microsome hepatocyte 216: 137
collagen crosslink 213: 525
leucine metab body 214: 1015
Radioimmunoassay
cytochrome P450 reductase microsome 211: 333
metallothionein I liver 213: 459
Radioiodinated
ligand protein degrdn detn 212: 791
Raman
spectra laccase Rhus 213: 503
Rana
bilirubin glucuronidase bile 212: 265
Rape
seed development acetylCoA carboxylase 212: 223
Rat
deoxycytidine metab 210: 367
Zucker obesity beta oxidn 212: 891
Zucker obesity lipogenesis ontogeny 216: 543
Receptor
adrenergic adenylate cyclase eryroid differentiation 210: 559
adrenergic glioma desensitization isoprenaline 216: 669
bilirubin erythrocyte membrane 210: 489
calcitonin glycosylation 212: 609
calcitriol analysis liq chromatog 209: 223
complement C3b lymphocyte erythrocyte 210: 567
defect glucagon resistance hepatoma 214: 845
epidermal growth factor colostrum 212: 465
estrogen binding oviduct chromatin 210: 905
glucocorticoid liver stabilization citrate 210: 259
heart muscarinic agonist antagonist 216: 11
histamine cAMP chondrocyte 212: 517
insulin adipocyte ATP 214: 203
insulin cell hybrid cybrid 214: 309
insulin degrdn liver 212: 529
insulin dimer 216: 687
insulin down regulation adipocyte 210: 373
insulin glucose adipocyte catecholamine 216: 737
insulin phosphorylation calcium 214: 361
insulin protein kinase 216: 575
insulin subunit structure liver 212: 79
lipoprotein expression monocyte macrophage 210: 523
macroglobulin fibroblast affinity chromatog 214: 629
mannose phosphate liposome 214: 413
phosphomannosyl turnover fibroblast 214: 353
purinergic endothelium PG12 214: 273
somatostatin insulin secretion 214: 225
somatotropin variant 214: 885
transferrin reticulocyte maturation 210: 37
vasopressin liver obesity 216: 475
Redn
azoferredoxin molybdoferredoxin dissocn kinetics 215: 393
Redox
cytochrome c conformation 213: 687
state ethanol testosterone 210: 29
Reductase
aldehyde active cleavage product kidney 209: 597
cholestenone epididymis 211: 65
cytochrome P450 radioimmunoassay microsome 211: 333
dichlorophenol indophenol leukocyte phagocytosis 210: 577
dihydropteridine kinetics dihydropterin pyrimidinone 211: 357
electron transport brain ontogeny 214: 751
glutathione thioredoxin disulfide redn 213: 519
hydroxymethylglutaryl CoA liver cholesterol 210: 625
hydroxymethylglutarylCoA regulation monocyte macrophage 210: 523
NADPH cytochrome P450 labeling bromobimane 215: 159
nitrate molybdenum center EPR spinach 213: 137
protein disulfide liver 213: 235
Regeneration
liver glycoprotein formation enzyme 214: 1003
liver membrane ATPase 212: 445
Renaturation
ovalbumin 212: 801
Renin
purifn affinity chromatog 211: 519
Resorption
cartilage catabolin leukocyte 215: 385
Respiration
Acanthamoeba oxygen affinity mitochondria 214: 47
liver mitochondria adrenergic 210: 867
mitochondria glucagon 210: 819
Musca aminotriazole catalase 216: 503
photosynthesis linkage Anacystis cytochrome 210: 269
uncoupling adipose tissue obesity 214: 171
yeast glycolysis Pasteur effect 212: 749
Restriction
endonuclease EcoRI kinetics mechanism 211: 405
Reticulocyte
maturation transferrin receptor 210: 37
Retina
alc dehydrogenase 213: 547
binding site rhodopsin 211: 45
Retinol
metab Brugia 214: 367
oxidn alc dehydrogenase retina 213: 547

Retinyl
phosphate divalent cation inter= action 214: 719
phosphate mannose filaria 214: 367
phosphate mannose membrane liver 216: 727
phosphate mannosyl carrier liver 210: 541
Reverse
transcriptase seminalplasmin inhibition 209: 183
Reversed
phase chromatog coproporphyrin 209: 553
phase liq chromatog metallo= thionein isoprotein 209: 71
phase liq chromatog porphyrin 211: 435
Review
cell secretion mutation 216: 1
chloroplast phosphoprotein photosynthesis regulation 212: 1
endocytosis mechanism 210: 1
eosinophil connective tissue catabolism 213: 769
GABA synapse biochem 209: 29
GDP adenylate cyclase 216: 527
genetics Hb development human 215: 1
influenza virus RNA 211: 281
neurotransmitter metab electro= chem monitoring 211: 1
phospholipid methylation regu= lation function 213: 1
secretory protein degrdn 214: 1
Rh
null erythrocyte thiol protein 213: 267
Rhesus
UDP glucuronyltransferase liver fetus 214: 1007
Rhodamine
compd serine proteinase sub= strate 209: 299
peptide serine proteinase sub= strate 215: 253
Rhodopseudomonas
chromatophore phosphorylation uncoupler model 212: 25
coproporphyrinogen oxidase mechanism 209: 709
cytochrome photosynthesis oxy= gen methylsulfoxide 212: 783
Rhodopsin
peptide sequence 211: 661
structure retinal binding site 211: 45
Rhodospirillum
azoferredoxin enzymic activation 213: 741
nitrogenase iron protein adenine 209: 881
ribulose diphosphate carboxylase oxygenase 212: 45
Rhus
laccase Raman spectra 213: 503
laccase reconstitution copper metallothionein 211: 515
Rhynchosciara
midgut beta glucosidase 213: 43
Rhythm
lipogenesis mammary lactation appetite 214: 183
RIA
cytochrome P450 phenobarbital form 212: 55
proteoglycan aggregate cartilage 213: 371
Ribose
phosphate photosynthesis regu= lation 210: 273
transport liver lysosome 212: 211
Ribosome
formation regulation liver regen= eration 210: 183
inactivating protein plant seed 216: 617
subunit Caldariella mass 209: 461
Ribosyltransferase
ADP Plasmodium 209: 687
Ribulose
diphosphate carboxylase oxyge= nase Rhodospirillum 212: 45
phosphate epimerase erythrocyte human 211: 617
Ricin
resistance BHK fibroblast glycan 211: 575
Ricinus
barley protein homol 213: 543
RNA
efflux cell nucleus methodol criticism 214: 915
influenza virus review 211: 281
polymerase I liver protein 210: 837
synthesis diabetes triiodothyro= nine 214: 637
transcription liver phenobarbital 210: 599
transport cytosol heart hypertro= phy 209: 285
ventricle atrium heart 214: 497
RNase
seminal plasma human 215: 605
Rotational
diffusion ATPase sarcoplasmic reticulum 213: 67
Rouleaux
formation erythrocyte 214: 257
Rubidium
activation glutamate dehydroge= nase Neurospora 209: 527
Rumen
bacteria linolenate isomerization hydrogenation 216: 519
epithelium mitochondria keto= genesis enzyme 216: 769
Ruthenium
red pyruvate dehydrogenase heart 214: 581
Ryegrass
endosperm membrane glucan synthase 209: 627
Saccharomyces
deoxyfluoromannose metab 209: 677
exoglucanase postsecretional modification 215: 471
Pasteur effect 212: 749
phosphofructokinase pH ben= zoate antifungal 214: 657
phosphoglycerate kinase se= quence 211: 199
proteolysis mitochondria inner membrane 214: 785
tryptophan synthase 209: 151
Salicylate
binding serum albumin 209: 135
binding serum albumin immobi= lization 213: 387
glycogen metab liver lysosome 212: 99
Saliva
protein cleavage kallikrein 211: 35
Salivary
gland phosphoinositide metab fly 212: 849
inositol phosphate neurotran= smitter 212: 473
Salmo
glutathione transferase affinity chromatog 211: 523
HMG protein liver testis 215: 531
San
9785 Vicia monogalactosyldiacyl= glycerol formation 209: 513
Sarcophaga
hemolymph antibacterial protein 211: 727
Sarcoplasm
protein metab development starvation 214: 587
Sarcoplasmic
reticulum ATPase calcium mus= cle denervation 210: 339
reticulum ATPase dynamics 213: 67
reticulum calcium transport dantrolene 212: 399
Scavenger
hydroxyl radical differential oxidn 216: 415
Schistocerca
ecdysonoate hydroxyecdysonoate 213: 261
egg ecdysteroid phosphate 213: 533
Schizosaccharomyces
Pasteur effect 212: 749
Sciatic
nerve inositol transport diabetes 210: 775
Sea
snake erabutoxin venom 213: 39
snake neurotoxin taxonomy 213: 31
urchin egg zinc binding protein 211: 109
urchin fibronectin 215: 205
Secretagogue
phosphatidylinositol diphosphate metab pancreas 212: 483
Secretion
procollagenase synovial fibrob= last 214: 281

Secretory
granule insulin compn 210: 297
protein degrdn review 214: 1
Seed
ribosome inactivating protein plant 216: 617
Selenium
deficiency liver heme metab 214: 53
epididymis fat glucose oxidn 214: 471
Seminal
plasma RNase human 215: 605
Seminalplasmin
reverse transcriptase inhibition 209: 183
Sendai
virus cell permeability exocytosis 210: 737
Senescence
albumin elimination 216: 309
glutathione formation mosquito 210: 289
link protein cartilage age 214: 269
mosquito glutathione transferase 210: 281
Sepharose
Blue serum albumin ligand binding 213: 387
procainamide cholinesterase purifn serum 211: 243
Sequence
amelogenin homol tooth enamel matrix 211: 149
collagen chain skin 215: 183
complement Bb fragment 209: 51
gene uncE allele Escherichia 213: 451
gene uncE mutation Escherichia 211: 717
kallikrein submandibular gland 209: 125
neurotoxin sea snake 213: 31
phosphoglycerate kinase Saccha= romyces 211: 199
rhodopsin peptide 211: 661
vicilin proteolysis pea specificity 212: 427
Sequencing
peptide permethylation chroma= tog spectroscopy 215: 261
Serine
active site tryptophan subtilisin 215: 413
proteinase complement C1s sequence 215: 565
proteinase fluorogenic substrate 209: 299
proteinase kinetics 215: 589
proteinase memsin carcinosarco= ma 211: 695
proteinase substrate Rhodamine peptide 215: 253
purine formation muscle 216: 605
Serum
albumin binding photobilirubin II 213: 25
albumin ligand binding 209: 135
albumin ligand binding immobi= lization 213: 387
carboxyl esterase multiple form 215: 91
cholinesterase purifn procainam= ide Sepharose 211: 243
electrolyte metabolite detn NMR 211: 605
protein binding hematoporphyrin 214: 503
Sheep
fetus adipose glucose metab 210: 677
Shikimate
dehydrogenase active site Neu= rospora 213: 405
Sialate
precursor forming enzyme organ 210: 21
Sialidase
nomenclature 215: 711
Sialoglycoprotein
acetylgalactosaminyltransferase kidney microsome 215: 483
erythrocyte Wrb antigen 209: 273
formation liver 216: 87
Sialyltransferase
acceptor specificity liver embryo 213: 253
Skin
collagen chain sequence 215: 183
dermatan sulfate proteoglycan 213: 289
fetoprotein estradiol binding ontogeny 210: 653
fetoprotein newborn formation characterization 216: 227
glycogen metab starvation re= feeding 212: 679
hydroxyprostaglandin dehyd= rogenase kinetics 212: 129
proteodermatan sulfate oligosac= charide 213: 297
Small
intestine phosphofructokinase starvation 210: 129
Smooth
muscle artery pinocytosis 216: 467
muscle cyclic nucleotide phos= phodiesterase 215: 627
Snail
foot muscle adenylate deaminase specificity 215: 39
Snake
sea erabutoxin venom 213: 39
sea neurotoxin taxonomy 213: 31
Soapwort
ribosome inactivating protein 216: 617
Sodium
alanine electrogenic cotransport liver 210: 621
alanine transport erythrocyte 216: 349
ATPase thermal denaturation 211: 771
chloride tolerance Dunaliella 213: 131
transport aldosterone protein 214: 29
transport lymphocyte concana= valin 210: 893
Solute
accessible space peroxisome 210: 685
Solvent
org stimulation vitamin K carb= oxylase 209: 719
Somatoliberin
purifn structure hypothalamus 209: 643
Somatostatin
receptor insulin secretion 214: 225
Somatotropin
covalent crosslinking 209: 107
NMR histidine residue 213: 107
uptake kidney liver 214: 121
variant characterization receptor 214: 885
Sorbitol
dehydrogenase brain human 211: 81
Soybean
dolichol polyprenol 213: 513
Species
specificity adenosylmethionine decarboxylase inhibition 213: 495
Specific
radioactivity detn hormone 212: 259
Spectra
cytochrome oxidase reaction intermediate 215: 659
Spectrometry
mass carboxy terminus identifi= cation 215: 273
Spectroscopy
chromatog peptide sequencing 215: 261
Spermidine
spermine acetyltransferase ace= tyl CoA site 213: 707
spermine acetyltransferase ki= netics mechanism 213: 701
synthase interaction methyl= thioadenosine analog 210: 429
Spermine
spermidine acetyltransferase acetyl CoA site 213: 707
spermidine acetyltransferase kinetics mechanism 213: 701
synthase interaction methyl= thioadenosine analog 210: 429
synthase kinetics mechanism brain 215: 669
Spherocytosis
heredity erythrocyte membrane 211: 349
Sphingomyelinase
structure heterogeneity placenta 209: 291
Spinach
chloroplast glutathione ascorbate 210: 899
nitrate reductase molybdenum center EPR 213: 137
plastocyanin structure ENDOR 215: 209

Spinal
nerve neurofilament triplet protein 215: 227
Spirulina
ferredoxin oxidn kinetics 211: 219
Spleen
NAD glycohydrolase membrane 212: 459
protein kinase 209: 435
Spodoptera
ecdysonoate hydroxyecdysonoate 213: 261
Spore
coat protein phosphorylation Dictyostelium 212: 699
coat protein processing Bacillus 210: 411
Sporidesmin
liver bile acid transport 212: 197
Squid
calcium binding protein nervous system 209: 797
Staphylococcus
penicillinase unfolding interme= diate NMR 215: 525
Starvation
beta oxidn peroxisome obesity 212: 891
fatty acid metab liver 214: 553
glutamine synthetase muscle 216: 523
glycogen metab skin 212: 679
lipogenesis liver mother fetus 216: 695
lipolysis adipose vasopressin 212: 899
lipoprotein lipase adipose 210: 639
malonyl CoA organ 214: 21
mammary gland polyamine metab 212: 149
myofibril protein metab develop= ment 214: 587 214: 593
phosphofructokinase small intes= tine 210: 129
protein formation muscle hemi= corpus 214: 433
protein formation muscle hor= mone 216: 583
refeeding mammary amino acid 216: 343
refeeding mammary liver lipo= genesis 216: 515
sugar transport muscle kinetics 214: 737
threonine metab liver 214: 687
vasopressin metabolic effect 212: 231
Stearate
measles virus infection persis= tence 214: 665
Steroid
reductase epididymis 211: 65
Stomach
amino acid transport 210: 451
ATPase activator phospholipase A2 212: 887
membrane calcium transport 210: 315
mucus polysaccharide 215: 421
proton transport ATPase micro= some 213: 587
substrate transport metab 212: 875
Storage
protein castor bean 213: 543
Streptococcus
polysaccharide specific Ig kappa 211: 173
Stretching
muscle protein formation prosta= glandin 214: 153
Submandibular
gland kallikrein 209: 125
Substance
P parotid phosphatidylinositol formation 214: 865
Substrate
metab pathway hepatocyte 212: 585
transport metab stomach 212: 875
Subtilisin
active site serine tryptophan 215: 413
Subunit
protein kinase crosslinking 209: 581
structure glutathione transferase liver 213: 625
structure insulin receptor liver 212: 79
structure triethylamine diethyla= mine dehydrogenase 211: 535
Succinyl
CoA synthetase binding fluorosulfonylbenzoyladenosi= ne 215: 513
Sucrose
marker mitochondria vol detn 214: 387
overfeeding brown adipose obesi= ty 214: 215
Sugar
transport liver lysosome 212: 211
transport muscle kinetics 214: 737
Sulfatase
aryl A endometrium 211: 649
Sulfation
heparan sulfate disaccharide compn 209: 315
heparan sulfate NMR 211: 677
Sulfhydryl
alkylation cytochrome P450 reductase 215: 159
ATP site succinyl CoA synthe= tase 215: 513
cysteine proteinase identification papaya 213: 559
oxidase sepn glutamyltransferase milk 209: 731
reagent butyryl CoA dehydroge= nase 211: 559
Sulfite
oxidase molybdenum center EPR 211: 227
Sulfotransferase
estrogen placenta uterus 216: 451
Sulfur
35 triostin antibiotic DNA bind= ing 211: 543
Superoxide
dismutase copper zinc site EX= AFS 213: 765
dismutase fly aminotriazole catalase 216: 503
Swainsonine
oligosaccharide mannosidosis genetic 215: 693
Sweat
gland eccrine metab 212: 143
Swine
fatty acid metab development 212: 93
Sycamore
cell culture laccase 209: 489
Sympathetic
denervation phosphatidylinositol formation parotid 214: 865
Synaptic
vesicle cholinergic membrane lipid organization 211: 155
Synaptosomal
acetylcholinesterase diet lipid 211: 507
Synaptosome
recovery anoxia calcium hydro= gen 212: 289
Synovial
fibroblast procollagenase biosyn= thesis secretion 214: 281
Synovium
catabolin like protein 209: 337
fibroblast catabolin formation 216: 481
Synthase
aminolevulinate formation liver hemin 214: 967
aminolevulinate liver iron lipid peroxidn 212: 321
aminolevulinate Rhodopseudo= monas 209: 709
arabinan bean subcellular locali= zation 210: 497
citrate Bacillus 213: 53
CoA liver 215: 153
enolpyruvylshikimate phosphate Escherichia 213: 187
fatty acid component inhibition liver 215: 545
glucan membrane endosperm ryegrass 209: 627
glycogen liver obesity glucose 216: 491
glycogen phosphorylase glucose diabetes 210: 783
hyaluronate teratocarcinoma 211: 181
hydroxymethylbilane uroporphy= rinogen detn erythrocyte 213: 85
mRNA prostaglandin endoper= oxide mastocytoma 212: 219
polysaccharide bean induction control 210: 509
spermidine spermine interaction methylthioadenosine analog 210: 429
spermine kinetics mechanism brain 215: 669
tryptophan Saccharomyces 209: 151
Synthetase
fatty acid thioester hydrolase

role 209: 215
glutamine muscle acidosis 216: 523
succinyl CoA binding fluorosulfonylbenzoyladenosine 215: 513
Taurochenodeoxycholate
liver 216: 107
Taurocholate
transport liver sporidesmin 212: 197
Tauroursdodeoxycholate
liver 216: 107
Taxonomy
Laticauda neurotoxin 213: 39
neurotoxin sea snake 213: 31
Technetium
99m zymosan phagocytosis detn 214: 277 214: 278
Temp
ornithine decarboxylase embryo 216: 597
pyruvate dehydrogenase active site coupling 213: 331
subzero trypsin kinetics 215: 555
Teratocarcinoma
differentiation antigen glycoprotein carrier 215: 491
hyaluronate synthase 211: 181
Testis
HMG protein Salmo 215: 531
Testosterone
formation ethanol acetaldehyde 210: 29
Leydig cell LHRH agonist 216: 747
tritiated specific radioactivity detn 212: 259
Tetanus
toxin amino acid compn 209: 897
toxin size compn 213: 271
Tetrachlorodibenzodioxin
uroporphyrinogen decarboxylase hepatocyte 214: 145
Tetrahymanol
ubiquinone 8 formation Tetrahymena 216: 203
Tetrahymena
dolichol phosphorylation calcium calmodulin 216: 317
tetrahymanol ubiquinone 8 formation 216: 203
Thermal
denaturation ATPase sodium potassium 211: 771
Thermodn
lactate dehydrogenase activation phosphate 215: 685
Thermus
NADH dehydrogenase 209: 427
Thioester
hydrolase role fatty acid synthetase 209: 215
Thioesterase
mammary epithelium differentiaiton 212: 155
Thiol
group complement C2 peptide 213: 201
protein Rh null erythrocyte 213: 267
reagent alanine transport liver 214: 489
Thiolase
oxoacyl CoA mechanism liver 213: 153
Thioltransferase
disulfide redn liver 213: 519
Thioredoxin
disulfide redn liver 213: 519
Threonine
metab liver metabolic state 214: 687
Thrombasthenia
glycoprotein IIb IIIa monocyte 214: 331
Thrombin
antithrombin binding heparin 211: 91
antithrombin complex formation heparin 213: 345
fibrin oligomer formation 213: 75
Thylakoid
photosynthetic electron transport red algae 210: 583
Thymidine
interferon Daudi DNA formation 214: 983
Thymocyte
mitogenesis Con A calcium 214: 575
prepn cAMP content 216: 207
protein glycosylation ammonium chloride 216: 681
Thy1 glycoprotein 211: 641
Thymus
protein phosphorylation thyropropin 215: 643
Thyroid
protein phosphorylation thyropropin 215: 643
Thyrotropin
protein phosphorylation thyroid thymus 215: 643
Thyroxine
nonhistone protein liver 210: 331
Thy1
glycoprotein chicken brain 213: 143
glycoprotein thymocyte 211: 641
TIMP
metalloproteinase inhibitor interaction collagenase bone 211: 313
Tissue
collagen reducible crosslink detn 213: 525
Tooth
carboxyglutamate contg protein 216: 249
enamel matrix amelogenin sequence homol 211: 149
predentin noncollagenous protein 214: 769
Toxin
cholera blood platelet 212: 669
neuro Laticauda 213: 39
sea snake taxonomy 213: 31
tetanus amino acid compn 209: 897
tetanus size compn 213: 271
Trachea
cartilage protein metab culture 212: 659
Transcriptase
reverse seminalplasmin inhibition 209: 183
Transferase
glutathione affinity chromatog trout 211: 523
glutathione inhibition bile acid 215: 581
glutathione mosquito development senescence 210: 281
glutathione multiple form erythrocyte 215: 213
glutathione subunit structure liver 213: 625
glutathione X liver 215: 617
oxo acid CoA kinetics kidney 213: 179
Transferrin
receptor reticulocyte maturation 210: 37
Transformation
kidney fibronectin polyamine availability 210: 137
neoplastic cell division phosphate 214: 695
Transhydrogenase
glutathione insulin liver 213: 235
nicotinamide nucleotide inhibition dicyclohexylcarbodiimide butanedione 209: 889
Translocase
proton specificity insulin granule 210: 235
Transport
adrenal chromaffin granule nucleotide 210: 789
alanine erythrocyte sodium 216: 349
alanine liver membrane 214: 489
amino acid growth factor 210: 361
amino acid stomach 210: 451
anion protein sequence erythrocyte 213: 577
bile acid liver sporidesmin 212: 197
calcium amiprophosmethyl and inhibition 212: 567
calcium endoplasmic reticulum pancreas islet 212: 113
calcium heart mitochondria catecholamine 216: 333
calcium hepatocyte phospholipase 210: 115
calcium kidney brush border 214: 37
calcium liver A23187 214: 405
calcium manganese pancreas islet 210: 307
calcium membrane stomach 210: 315
calcium mitochondria calmodulin 214: 929
calcium mitochondria liver hormone 210: 463
calcium mitochondria liver manganese 212: 773
calcium pancreas amino acid 214: 899

calcium pyruvate dehydrogenase hormone 212: 271
cholesterol microsome hepato= cyte radioassay 216: 137
electron protein phosphorylation chlorplast 210: 517
electron reductase brain ontoge= ny 214: 751
galactose Escherichia hydrogen ion 210: 699
glucose adipocyte insulin gluca= gon 212: 189
glucose fibroblast purine PRPP 214: 133
glucose intestine 212: 183
glutamine liver 216: 401
IgA liver endocytic vesicle 214: 823
lipoprotein liver 212: 173
liver mannose retinyl dolichyl phosphate 210: 541
lysosome enzyme monocyte macrophage 214: 671
malate dehydrogenase mito= chondria 210: 207
methylamine liver cell lysosome 210: 929
nucleoside erythrocyte preserva= tion 210: 457
nucleoside inhibitor binding fibroblast 216: 299
phosphate mitochondria liver 212: 279
potassium Escherichia hydrogen ion 216: 709
potassium lymphocyte calcium concanavalin 210: 885
proline brush border membrane 214: 209
proton ATPase microsome mer= capto 213: 587
proton cytochrome mitochondria oxidoredn 216: 259
RNA cytosol heart hypertrophy 209: 285
sodium alanine liver 210: 621
sodium lymphocyte concanavalin 210: 893
substrate stomach 212: 875
sugar liver lysosome 212: 211

Transporter
nucleoside glucose erythrocyte membrane 214: 995

TRH
phosphatidylinositol phosphate hydrolysis 216: 287
prolactin pituitary tumor cAMP 216: 551

Trichlorocarbanilide
protonmotive force Escherichia 212: 105

Trichoderma
cellobiohydrolase 215: 677

Triethylamine
dehydrogenase subunit structure 211: 535

Trifluoperazine
mitochondria calcium transport calmodulin 214: 929

Triglyceride
liver diet cholestyramine 216: 511

Trihydroxycholecalciferol
formation intestine kidney 214: 261

Triiodothyronine
RNA protein synthesis diabetes 214: 637

Triostin
sulfur 35 antibiotic DNA binding 211: 543

Triphosphatase
nucleoside stereoselectivity aorta 214: 975

Triplet
protein neurofilament proteolytic digestion 215: 239
protein neurofilament spinal nerve 215: 227

Tritiated
desmosterol cholesterol trans= port 216: 137
testosterone specific radioactivity detn 212: 259

Tropomyosin
size amino acid compn 213: 271

Troponin
interaction calmodulin I fila= ment 209: 417
phosphorylation protein kinase heart 209: 189
T structure heart 213: 123

Trout
glutathione transferase affinity chromatog 211: 523

Trypanosoma
glycoprotein VSG117 disulfide bond location 209: 481
phosphoglycoprotein structure antigen 213: 313
variant surface glycoprotein carbohydrate 209: 261

Trypsin
active site benzyl guanidino= thiobenzoate 215: 287
inhibitor barley 213: 543
kinetics subzero temp 215: 555
like proteinase memsin carcino= sarcoma 211: 695
macroglobulin electrophoretic mobility 209: 99
neurofilament triplet protein structure 215: 239

Tryptophan
binding serum albumin immobi= lization 213: 387
binding serum albuminn 209: 135
gluconeogenesis liver metabolic inhibitor 214: 511
oxygenase detn liver 209: 831
pyrrolase detn liver polemic 215: 709
serine active site subtilisin 215: 413
synthase Saccharomyces 209: 151

Tumor
mammary peroxidase eosinophil 213: 165
methylenetetrahydrofolate me= thotrexate 216: 295

Tunicamycin
lysosome enzyme monocyte macrophage 214: 671

Tyrosine
aminotransferase hormone pol= yamine 214: 679
metab phenylalanine 210: 811

T3
lipogenesis liver insulin 210: 937

T4
liver glycerophosphate dehyd= rogenase 210: 331

Ubiquinone
neutrophil mitochondria 216: 765
8 formation Tetrahymena 216: 203

UDP
galactose pyrophosphatase liver regeneration 214: 1003
glucuronosyltransferase liver amphibian 212: 265
glucuronosyltransferase liver development 214: 533
glucuronyltransferase liver fetus rhesus 214: 1007
glucuronyltransferase liver phe= nobarbital 214: 517

Uncoupling
protein brown adipose mito= chondria 210: 859

Unfolding
intermediate penicillinase Sta= phylococcus NMR 215: 525

Urea
cycle enzyme fetus hormone 216: 281
formation liver valproate 216: 233

Uremia
lipogenesis glucose dialysis insu= lin 214: 459

Uridine
binding dissocn fibroblast 216: 299
transport erythrocyte 210: 457

Urine
methylhistidine muscle intestine 214: 607
porphyrin isomer detn chroma= tog 211: 435

Urokinase
protein complex plasma 215: 123

Uroporphyrinogen
decarboxylase erythrocyte liver 215: 45
decarboxylase hepatocyte chem 214: 145
decarboxylase liver iron hexa= chlorobenzene 214: 909
synthase detn erythrocyte 213: 85

Uterus
estrogen sulfotransferase 216: 451
peroxidase eosinophil 213: 165

Valine
metab muscle catecholamine 216: 63

Valinomycin
mitochondria vol liver 214: 395
protonmotive force Escherichia 212: 105

Valproate
liver urea formation 216: 233
Vant
Hoff plot evaluation error 209: 277
Varicella
zoster virus bromovinylaminodi= deoxyuridine 211: 439
Vasopressin
glutaminase liver mitochondria 210: 957
lipolysis adipose starvation 212: 899
liver mitochondria respiration 210: 867
metabolic effect starvation 212: 231
mitochondria vol liver 214: 395
oleate metab liver 212: 85
phosphatidylinositol phosphate metab liver 212: 733
pyruvate dehydrogenase calcium 212: 271
receptor liver obesity 216: 475
Venom
erabutoxin sea snake 213: 39
neurotoxin sea snake 213: 31
Ventricle
atrium heart protein formation 214: 497
Verruculogen
formation Penicillium 214: 991
Vertebrate
blood metabolite detn NMR 211: 605
Vesicle
cAMP phosphodiesterase hepa= tocyte 216: 245
endosome derived protein hepa= tocyte 216: 27
Vicia
monogalactosyldiacylglycerol formation San 9785 209: 513
Vicilin
proteolysis pea sequence specif= icity 212: 427
VIP
prolactin pituitary tumor cAMP 216: 551
Virucide
bromovinylaminodideoxyuridine 211: 439
Virus
glycoprotein oligosaccharide structure 209: 659
herpes simplex 1 bromovinylam= inodideoxyuridine 211: 439
influenza RNA review 211: 281
measles infection persistence phospholipid 214: 665
reverse transcriptase seminal= plasmin 209: 183
Sendai cell permeability exocy= tosis 210: 737
Viscometer
recording collagenase detn 213: 275
Vitamin
D calcium binding protein intes= tine 211: 709
D metabolite bone duodenum DNA 214: 293
K carboxylase peptide glutamate carboxylation 215: 75
K carboxylase stimulation liver 209: 719
K dependent protein S complex 209: 847
K dependent protein S plasma 209: 837
Vol
detn mitochondrial mannitol marker 214: 387
Warfarin
binding serum albumin immobi= lization 213: 387
Water
accessible space peroxisome 210: 685
Wheat
protein inhibition amylase Bacil= lus 209: 561
Wool
keratin helix interaction reas= sembly 209: 587
Wrb
antigen sialoglycoprotein eryth= rocyte 209: 273
Wy
14643 liver mRNA 214: 879
14643 liver peroxisome prolifera= tion 210: 875
Xanthine
oxidase exchange reaction pH 215: 101
Xylan
synthase bean induction control 210: 509
synthase bean subcellular locali= zation 210: 497
Xylosidase
beta inhibition Bacillus 215: 67
Yeast
amine oxidase substrate specific= ity 211: 481
glycolysis respiration Pasteur effect 212: 749
Yolk
sac fetoprotein secretion glycosy= lation 212: 313
sac rat IgG metab 214: 815
Z
line muscle proteinase 209: 635
Zinc
binding protein Anthocidaris egg 211: 109
binding protein milk 209: 505
insulin secretory granule 210: 297
nutrition parturition steroid hormone 210: 761
site superoxide dismutase EX= AFS 213: 765
Zucker
rat obesity beta oxidn 212: 891
rat obesity lipogenesis ontogeny 216: 543
Zymosan
binding macrophage detn polem= ic 214: 277 214: 278
lysosome enzyme monocyte macrophage 214: 671
methylamine macrophage stimu= lation 212: 869